



# JOINTITE

CORK PRODUCTS

MUNDET CORK CORP.  
NEW YORK, N. Y.





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*Paper, Pen Holder Handles, Fishing Rod Handles*

*and other Sundry Cork Materials*





# CORK PRODUCTS

A COMPENDIUM OF INFORMATION ON THE  
USES OF CORK FOR INSULATION PURPOSES

*including useful data, specifications,  
tables and charts for*

REFRIGERATION  
SOUNDPROOFING  
HEAT PREVENTION  
HEAT CONSERVATION  
VIBRATION DEADENING  
CONDENSATION PREVENTION



## MUNDET CORK CORP.

450 Seventh Avenue, NEW YORK, N. Y.

### *Domestic Factories*

HILLSIDE, N. J.  
BROOKLYN, N. Y.

### *Foreign Factories*

PORTUGAL—ALDEGALEGA, AMORA, MORA, PUERTE DE SOR, SEIXAL  
TORONTO, CANADA; LONDON, ENGLAND; DJIDJELLI, ALGERIA

### *Branches*

ATLANTA, GA.  
BOSTON, MASS.  
BUFFALO, N. Y.

CHICAGO, ILL.  
CINCINNATI, OHIO  
DETROIT, MICH.

HOUSTON, TEX.  
KANSAS CITY, MO.  
LOS ANGELES, CAL.

MEMPHIS, TENN.  
NEW ORLEANS, LA.  
PHILADELPHIA, PA.

ST. LOUIS, MO.  
SAN FRANCISCO, CAL.  
TULSA, OKLA.

### *Canada*

MONTREAL, QUEBEC, MUNDET CORK AND INSULATION, LTD.

TORONTO, ONTARIO, MUNDET CORK AND INSULATION, LTD.  
WINNIPEG, MANITOBA, MUNDET CORK AND INSULATION, LTD.

### *Great Britain*

LONDON, ENGLAND, MUNDET CORK PRODUCTS, LTD.

### *Agents*

CLEVELAND, OHIO, C. S. ROSS  
DES MOINES, IOWA, JOHN KENNEDY  
MINNEAPOLIS, MINN., INSULATION SALES CO.  
PORTLAND, ORE., F. J. LEONARD

PORTLAND, ORE., PACIFIC ASBESTOS & SUPPLY CO.  
SALT LAKE CITY, UTAH, L. A. ROSER  
SEATTLE, WASH., PACIFIC ASBESTOS & SUPPLY CO.  
UTICA, N. Y., GEORGE WEISENBERGER

VANCOUVER, B. C., CANADA, T. M. GRINDLEY COMPANY, LTD.



# REFERENCES

## Bakeries

Gordon Baking Co.\*  
Ward Baking Co.\*  
Hill Baking Co.  
Kroger Grocery & Baking Co.\*  
Jersey City, N. J.

## Candy Factories

F. G. Shattuck Co. (Schrafft's)  
Reichardt Cocoa Corp.  
Park & Tilford  
National Candy Co.\*  
Planters Nut & Chocolate Co.  
New York, N. Y.  
New Brunswick, N. J.  
New York, N. Y.  
Suffolk, Va.

## Cheese Factories

Kraft Phoenix Cheese Co.\*

## Clubs

Chicago Womans Club  
Engineers Club  
Detroit Hockey Club  
Union League Club  
Chicago, Ill.  
Boston, Mass.  
Detroit, Mich.  
New York, N. Y.

## Cold Storage Warehouses

Merchants Refrigerating Co.  
Great Atlantic & Pacific Tea Co.\*  
Charles & Co.  
Hullman & Co.  
Indiana Refrigerating Co.  
Fly & Hobson  
Jersey City, N. J.  
New York, N. Y.  
Terre Haute, Ind.  
Indianapolis, Ind.  
Memphis, Tenn.

## Colleges

Yale University  
Harvard University  
University of Pennsylvania  
Temple University  
New Haven, Conn.  
Boston, Mass.  
Philadelphia, Pa.  
Philadelphia, Pa.

## Dairies

Borden Farms Products Co.\*  
Sheffield Farms Co.\*  
Beatrice Creameries  
National Dairy Products Co.  
H. B. Hood & Sons, Inc.  
Detroit, Mich.  
Long Island City, N. Y.  
Charlestown, Mass.

## Fish Storage Warehouses

N. J. Ice & Cold Storage Co.  
Bay State Fishing Co.  
General Seafoods Co.\*  
Beach Haven Crest, N. J.  
Boston, Mass.

## Florists

General Florist Supply Co.  
Burton & Watson, Inc.  
Tupelo Floral Co.  
New York, N. Y.  
Philadelphia, Pa.  
Tupelo, Miss.

## Fur Storages

Revillon Freres  
L. Bamberger & Co.  
New York, N. Y.  
Newark, N. J.

## Government Work

U. S. Buildings in various cities

## Hospitals

Physicians and Surgeons Hospital  
Columbus Hospital  
U. S. Government Hospitals\*  
Faulkner Hospital  
Presbyterian Hospital  
New York State Hospitals\*  
New York City Hospitals  
Wilmington, Del.  
Chicago, Ill.  
So. Boston, Mass.  
Newark, N. J.  
New York, N. Y.

## Hotels

Hotel Park Central  
Hotel St. George  
Hotel Majestic  
Bryn Mawr Beach Hotel  
Kenmore Hotel  
Jung Hotel  
New York, N. Y.  
Brooklyn, N. Y.  
Philadelphia, Pa.  
Chicago, Ill.  
Boston, Mass.  
New Orleans, La.

## Ice Cream Plants

Breyers Ice Cream Co.\*  
F. G. Shattuck Co. (Schrafft's)  
Eskimo Pie Corp.  
Annheuser Busch Co.\*  
Wieland Ice Cream Co.  
Good Humor Ice Cream Co.  
New York, N. Y.  
Brooklyn, N. Y.  
Chicago, Ill.  
Detroit, Mich.

## Ice Plants

Knickerbocker Ice Co.  
Rubel Ice Corp.  
Kansas Power Co.  
Tri City Ice Co.  
Boston Ice Co.  
Crescent City Ice Mfg. Co.  
City Ice & Fuel Co.  
New York, N. Y.  
New York, N. Y.  
Dodge City, Kan.  
Rock Island, Ill.  
Boston, Mass.  
New Orleans, La.  
St. Louis, Mo.

## Industrial Plants

Public Service Gas & Electric Co.  
Procter & Gamble Co.\*  
DuPont Viscoid Co.  
Michelin Tire Co.  
Bethlehem Steel Co.  
Buick Motor Co.  
American Enka Corp.  
Jersey City, N. J.  
Arlington, N. J.  
Middletown, N. Y.  
Bethlehem, Pa.  
Flint, Mich.  
Asheville, N. C.

## Office Buildings

New York Life Building  
Provident Mutual Life Ins. Building  
Russ Building  
Bell Telephone Co.\*  
New York, N. Y.  
Philadelphia, Pa.  
San Francisco, Cal.

## Oil Refineries and Plants

Crew Levick Co.  
C. F. Simons Son, Inc.  
Champlin Refinery Co.\*  
Sinclair Oil Co.  
Mid Continental Oil Co.  
Indiana Refining Co.  
Standard Oil Co. of California  
Philadelphia, Pa.  
Philadelphia, Pa.  
Tulsa, Okla.  
Tulsa, Okla.  
Indianapolis, Ind.  
Los Angeles, Cal.

## Packing Companies

C. A. Durr Packing Co.  
Swift & Co.  
Wilson & Co.\*  
Major Bros. Packing Co.  
Emge & Sons  
Batchelor & Snyder Co.  
Golden State Meat Co.  
Armour & Co.\*  
Utica, N. Y.  
New York, N. Y.  
Mishawaka, Ind.  
Fort Branch, Ind.  
Boston, Mass.  
San Francisco, Cal.

## Provision Plants

Federal Packing Co.  
Archer Daniels Midland Corp.  
Wm. A. Donnelly  
Western Produce Co.  
Hildebrandt Provision Co.  
International Produce Co.  
Providence Produce Terminal  
New Haven, Conn.  
Edgewater, N. J.  
Philadelphia, Pa.  
Abilene, Tex.  
Cleveland, Ohio  
Chicago, Ill.  
Providence, R. I.

## Restaurants

Childs Restaurants\*  
F. G. Shattuck Co. (Schrafft's)\*  
Longchamps Restaurants  
Bickford Restaurants  
De Mets  
Caruso Restaurants\*  
New York, N. Y.  
New York, N. Y.  
Chicago, Ill.

## Skating Rinks

Playland  
The Arena  
West Point Military Academy  
Rye, N. Y.  
Tulsa, Okla.  
West Point, N. Y.

## Theatres

Loews Theatres\*  
Warner Bros. Theatres\*  
Radio Keith Orpheum Theatres\*

\*Plants in various cities insulated with "Jointite" Corkboard and Pipe Covering.



### History of the Company

The name of Mundet was first identified with cork products in the year 1865. Today the Company ranks among the leaders of the industry.

### Cork and Its History

Cork has been used for many centuries. We find that it was fabricated by the ancients into shoe soles, floats, and bottle stoppers. In recent years, the uses of cork have multiplied many times, and today it is a necessary concomitant of civilization.

In Spain, Portugal, Africa (Mediterranean) and Italy we find an evergreen known as the Cork Oak. This tree must survive a tremendous amount of heat since it grows in tropical and semi-tropical zones. Nature has provided for this by promoting a growth which covers the trunk and limbs of the tree and effectively insulates it against the intense heat. This growth (or bark) is the cork of commerce. At periodical intervals the trees are stripped of this bark, which is then processed, baled and shipped to various manufacturing centers in Europe and the United States. These plants produce a multitudinous variety of cork products including cork insulation.

### Why Cork Is an Insulator

As explained above, Nature provided a covering that would protect the Cork Oak from the attack of tropical heat. This is accomplished by shaping a covering of relatively even thickness containing a multitude of minute air particles each hermetically sealed one from the other. Each particle of entrapped air is so small that it will not permit the setting up of air currents and in this way heat penetration is prevented. Furthermore, due to its granular structure, cork has no capillarity, while practically all other insulating materials are of a fibrous nature and have a high degree of capillarity.

### The Manufacture of Corkboard

The cork bark used for insulation is first ground up into particles or granules of from  $\frac{3}{8}$  to  $\frac{5}{8}$  in. in size. These are filled into moulds and hydraulically pressed to the required density. The moulds are then placed in an oven maintained at a relatively high temperature for a period of time dependent upon the thickness of insulation involved. The cork is kept under compression in the moulds throughout the baking process. The heat liquifies the gum or rosin that is peculiar to this type of bark. This gum thoroughly binds the granules together and hermetically seals one from the other, producing a solid slab of cork board (still 100% pure cork). The rough slab is then subjected to a finishing process which cuts it to accurate size and sands its surfaces, completing the manufacture of commercial corkboard insulation.

### Essentials of Good Insulation

The essentials of good insulation are low thermal conductivity; fire retardance; permanence; nonabsorb-

ence; sanitation; economy. Mundet "Jointite" Corkboard incorporates all these qualities.

### Our Facilities

The Company maintains two plants for the exclusive manufacture of insulation products. One is located in Portugal and the other in New Jersey (about ten miles from New York City). These plants are of about the same capacity and can produce a total of 60,000,000 to 70,000,000 ft. board measure of insulation a year. "Jointite" products are stocked in many of the large centers of the world. The Portuguese plant is adjacent to the Port of Lisbon from which regular sailings are to be had to any part of the world. The New Jersey plant at all times carries large stocks of finished products, as do all of the Branch Offices located in the principal cities of the United States and Canada. The Company's shipping facilities are unsurpassed, either by rail or water.

### Sales and Service

The Company maintains branches in the principal cities of the United States and Canada, and in London, England, for the convenience of its clients. Our branch offices are in charge of competent engineers who will gladly co-operate and furnish information pertinent to insulation work.

### Contracting

The Company maintains a well organized erecting force at each branch office fully capable of handling any erection contract involving its products. No contract is too small or too large.

### Guarantee

The Company unqualifiedly guarantees that its material and workmanship are of the best and agrees to make good, without cost to the client, any defect that may be chargeable to inferior material or workmanship.

### Standard Sizes

Mundet "Jointite" Corkboard is furnished in the following sizes:  $\frac{1}{2}$ ,  $\frac{3}{4}$ , 1,  $1\frac{1}{2}$ , 2, 3, 4 and 6 in. thick. All sheets are 12 in. wide and 36 in. long.

### Weight of Corkboard

Mundet "Jointite" Corkboard weighs approximately .75 lb. per sq. ft. per 1 in. thick (board measure) when shipped in bulk. When packed in cartons it weighs approximately .90 lb. per sq. ft. per 1 in. thick.

TABLE OF THICKNESSES RECOMMENDED TO BE USED FOR COLD STORAGE WORK AS INSULATION FOR VARIOUS TEMPERATURES

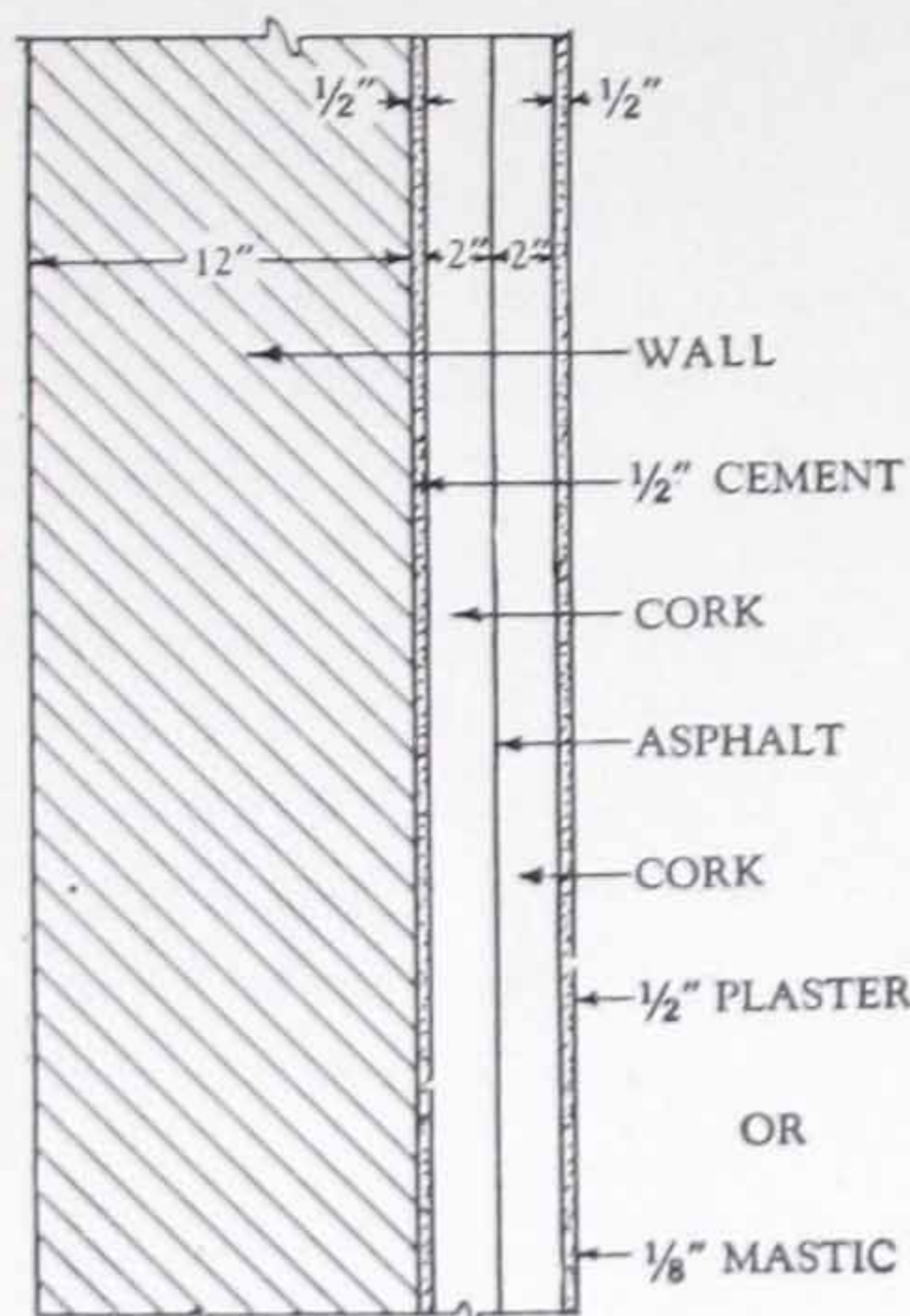
Range of temperature	Walls, in.	Ceilings, in.	Floor on ground, in.	Floor above ground, in.	Roofs, in.
Below 0° F.	8	8	7	8	9
0° to 10° F.	7	7	6	7	8
10° to 20° F.	6	6	5	6	7
20° to 35° F.	5	5	4	5	6
35° to 50° F.	4	4	3	4	5
50° to 60° F.	3	3	2	3	4
Above 60° F.	2	2	0	2	2



## GENERAL COLD STORAGE INSULATION

### Specification No. 1—Masonry Walls, Brick, Concrete, Hollow Tile

(Where First Course is Erected in Cement Mortar)



The walls shall be insulated with .... in. of "Jointite" Corkboard, applied in two courses of .... in. each. The first course of corkboard shall be erected against the walls in a 1/2-in. bed of portland cement mortar.

*Note (1):* If walls are of concrete, specify that they shall be thoroughly hacked in order to provide a good bond.

The second course of corkboard shall then be applied against the first course in a heavy dip coat of hot asphalt and additionally secured to the first course with

hard wood skewers of suitable length. All joints shall be broken relative to adjacent layers and to the preceding course. The exposed cork surfaces shall be finished with a 1/2-in. plaster finish applied in two coats; the first coat to be a rough or scratch coat and the second coat to be brought to a float (or trowel) finish and marked off in squares of approximately 4 ft. in order to minimize and direct shrinkage cracks.

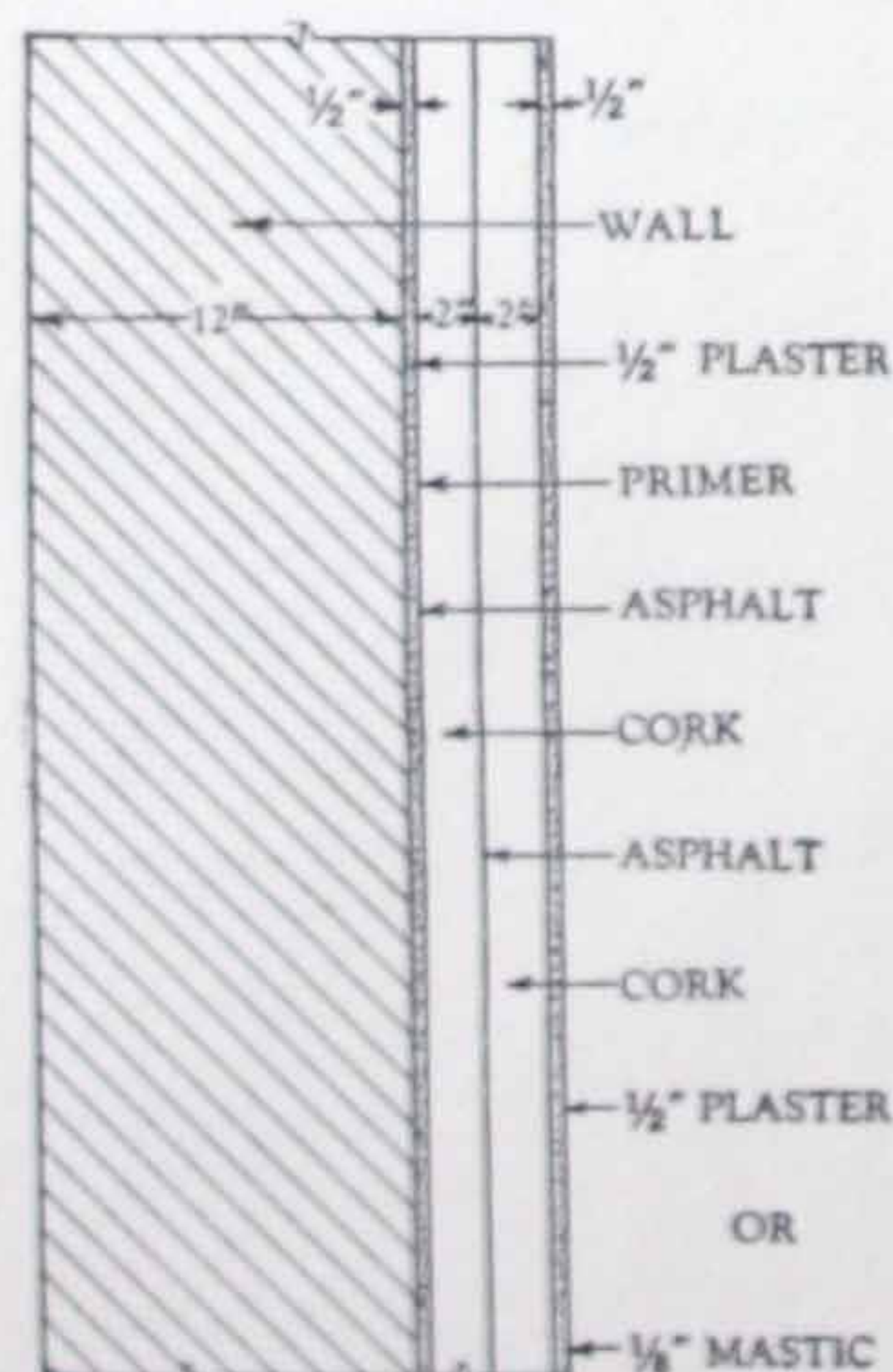
*Note (2):* If mastic finish is desired in place of plaster finish, omit the last paragraph above and substitute as follows:

The exposed cork surface shall be finished with a 1/8-in. cold mastic finish consisting of a brush or spray application of Mundet Asphalt Emulsion, followed by a trowel application of Mundet Asphalt Emulsion mixed with asbestos and clean screened sand in the following proportions, viz., 50 gal. of emulsion to 100 lb. of asbestos floats to 4 cu. ft. of sand. (This finish is black in color and may be painted if desired.)

### Specification No. 2—Masonry Walls, Brick, Concrete, Hollow Tile

(Where First Course is Erected in Hot Asphalt)

The walls shall first be given a single coat of portland cement plaster left under the float.

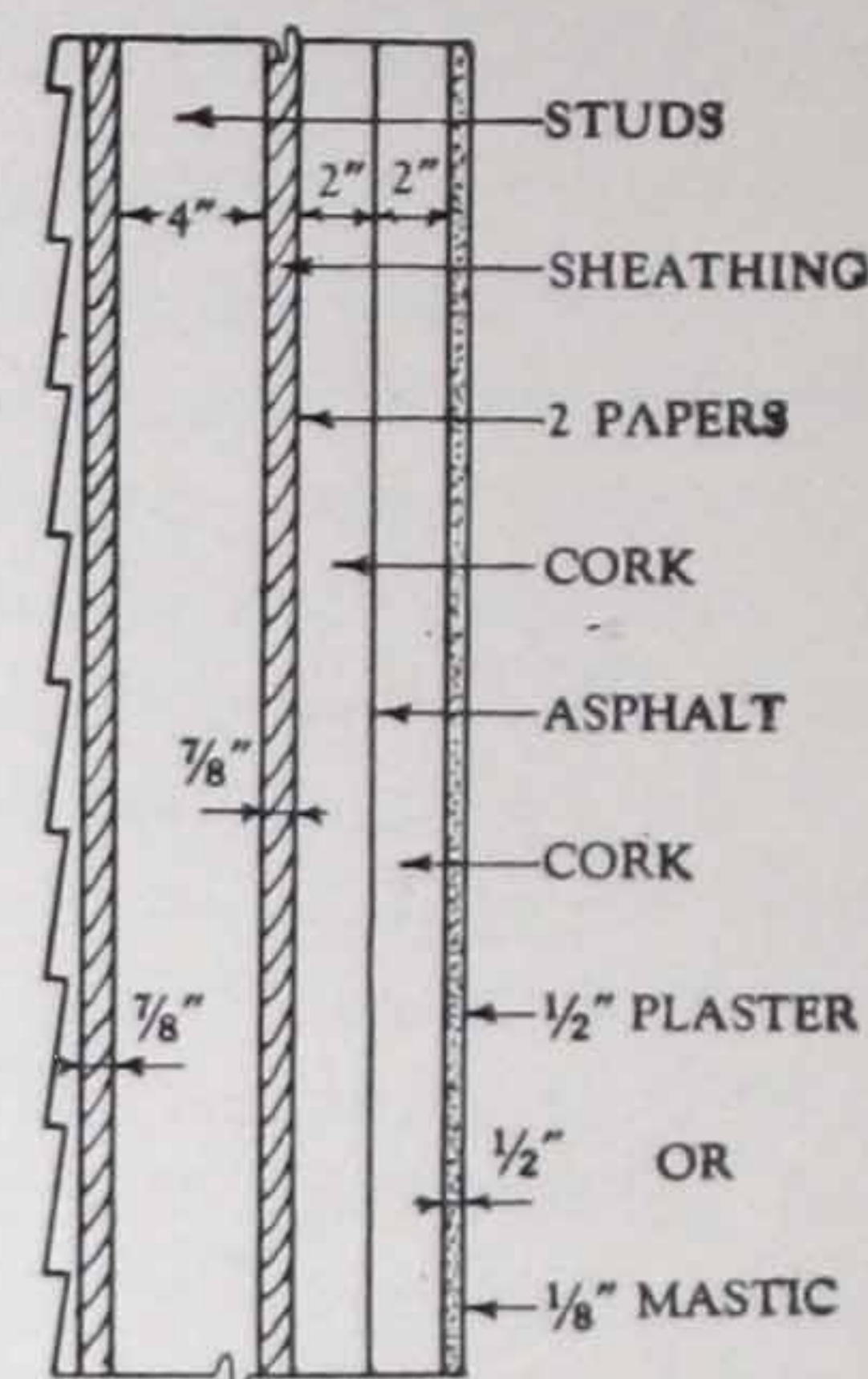


*Note (1):* If walls are of concrete, specify that they shall be thoroughly hacked in order to provide a good bond.

After the plaster coat has set, the walls shall be given two spray, or brush, coats of Mundet Asphalt Primer, following which the walls shall be insulated with .... in. of "Jointite" Corkboard applied in two courses. The first course of corkboard shall be applied against the walls in a dip coat of hot asphalt. The second course and the finish shall be as stipulated in Specification No. 1.

### Specification No. 3—Wood Frame Walls

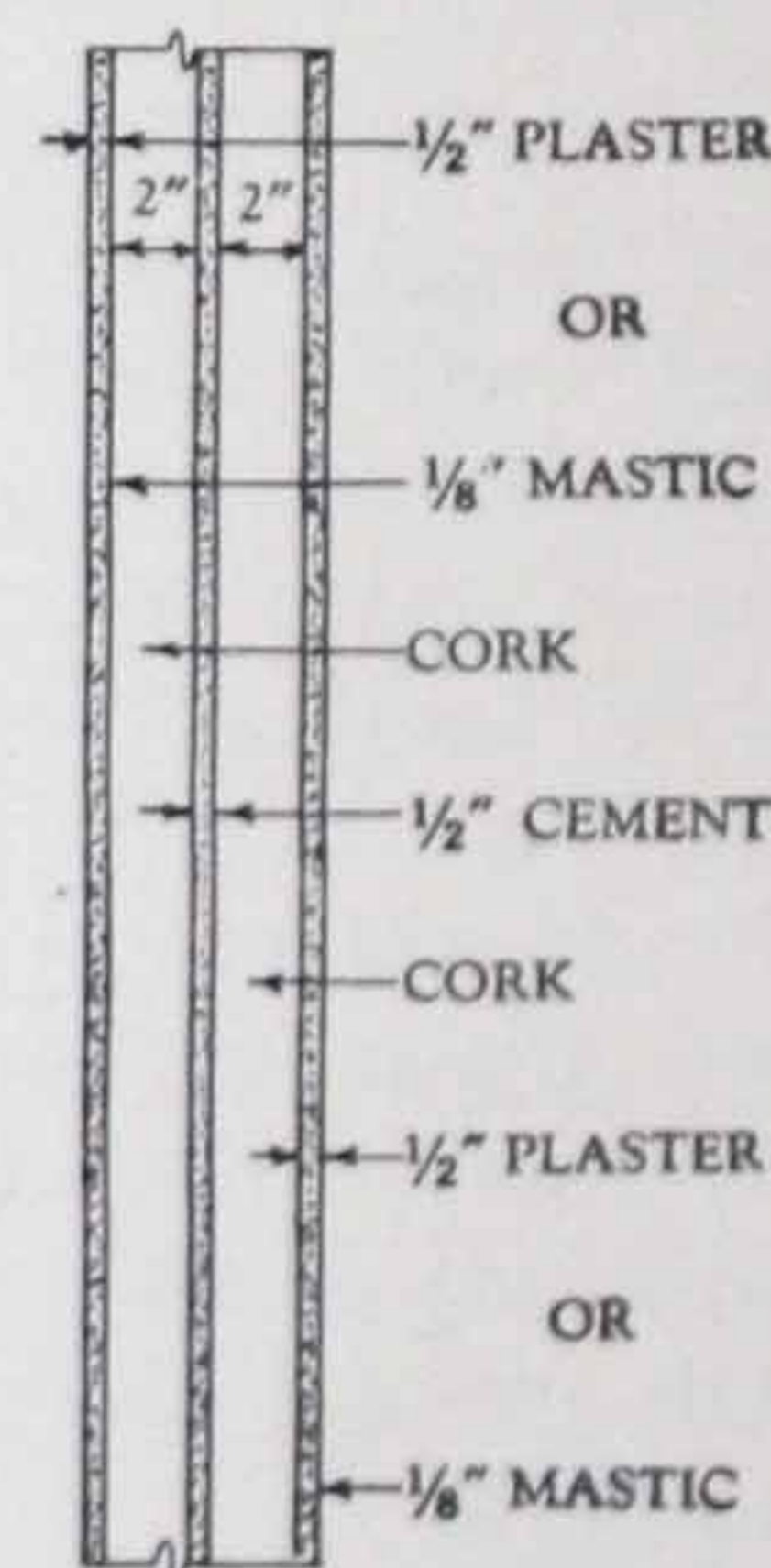
Two courses of water-proof insulation paper shall be securely tacked against the sheathed surfaces, after which the walls shall be insulated with .... in. of "Jointite" Corkboard applied in two courses. The first course of corkboard shall be nailed dry to the wall with the galvanized wire nails made especially for this type of work. The second course of corkboard shall be applied against the first course in a heavy dip coat of hot asphalt, and additionally secured with hard wood skewers of suitable length. All joints shall be broken with respect to adjacent layers and to the preceding course. The finish shall be as provided in Specification No. 1.



### Specification No. 4—Cork Partitions

(Cement Mortar)

The partitions shall be of the solid cork and cement self-sustaining type, and shall be fabricated of two courses of .... in. "Jointite" Corkboard. The first course of corkboard shall be erected against temporary studding and the second course shall be erected against the first in a 1/2-in. bed of portland cement mortar, and additionally secured with hardwood skewers of suitable length. All joints shall be broken relative to adjacent layers and to the preceding course. The exposed surfaces shall be finished as provided in Specification No. 1.

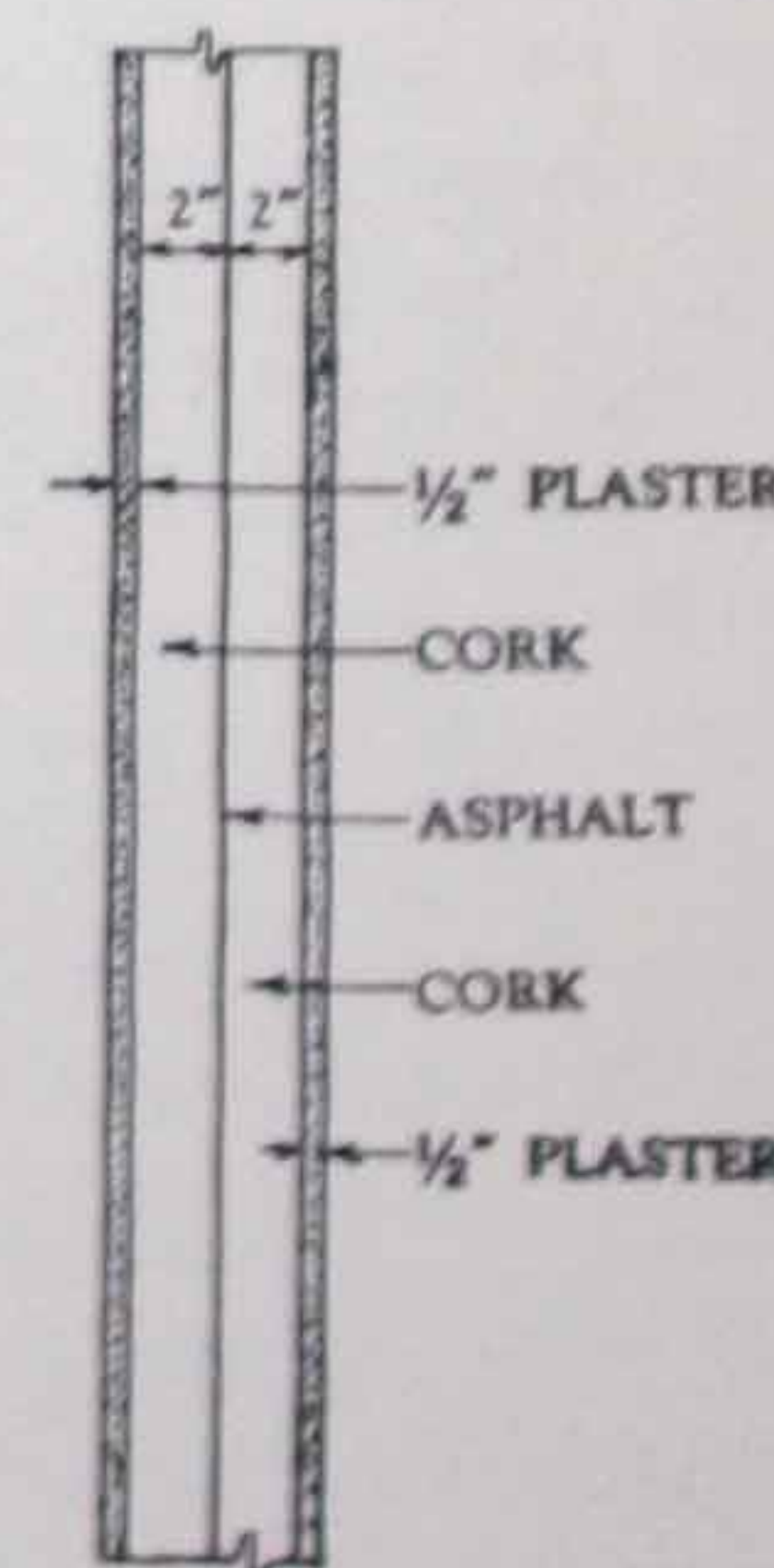


### Specification No. 5—Cork Partitions

(Hot Asphalt)

The partitions shall be of the solid cork and cement self-sustaining type, and shall be fabricated of two courses of .... in. "Jointite" Corkboard. The first course of corkboard shall be erected against temporary studding and the second course shall be erected against the first in a dip coat of hot asphalt, and additionally secured with hard wood skewers of suitable length.

All joints shall be broken relative to adjacent layers and to the preceding course. The exposed cork surfaces shall be finished with 1/2 in. of portland cement plaster mixed 1:2, applied in two coats; the first coat to be a rough or scratch coat and the second coat to be brought to a float (or trowel) finish and marked off in squares of approximately 4 ft. in order to minimize and direct shrinkage cracks.



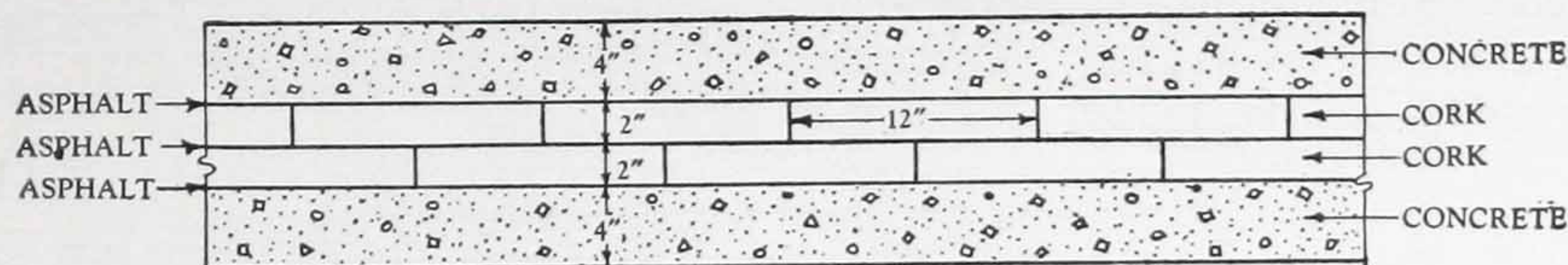


### Specification No. 6—Concrete Floors, Concrete Base

The floor shall be insulated with .... in. of "Jointite" Corkboard applied in two courses. The first course shall be laid down in a heavy mop coat of hot asphalt and the second course shall be laid upon the first in like manner, with all joints broken relative to the first course. The exposed top of the corkboard shall then receive a heavy mop coat of hot asphalt which

shall thoroughly seal all joints.

A concrete wearing floor .... in. thick shall be laid upon the corkboard. The first .... in. shall be gravel or rock concrete mixed ..... followed by a 1-in. cement top mixed 1:2 and floated and troweled to a smooth and even finish. The floor shall be pitched to floor drains.



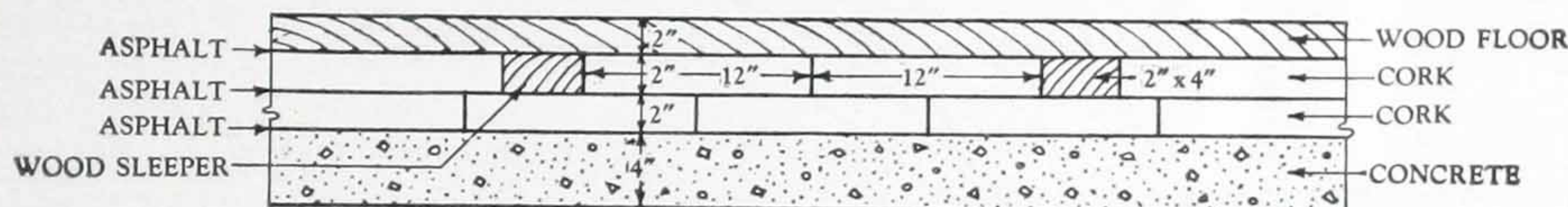
### Specification No. 7—Wood Floors, Concrete Base

The floors shall be insulated with .... in. of "Jointite" Corkboard in two layers as provided in Specification No. 6.

Over the first course of corkboard there shall be laid ....x4-in. wood sleepers on 28-in. centers, all securely mopped in.

The exposed cork surface shall then receive a heavy mop coat of hot asphalt which shall thoroughly seal all joints.

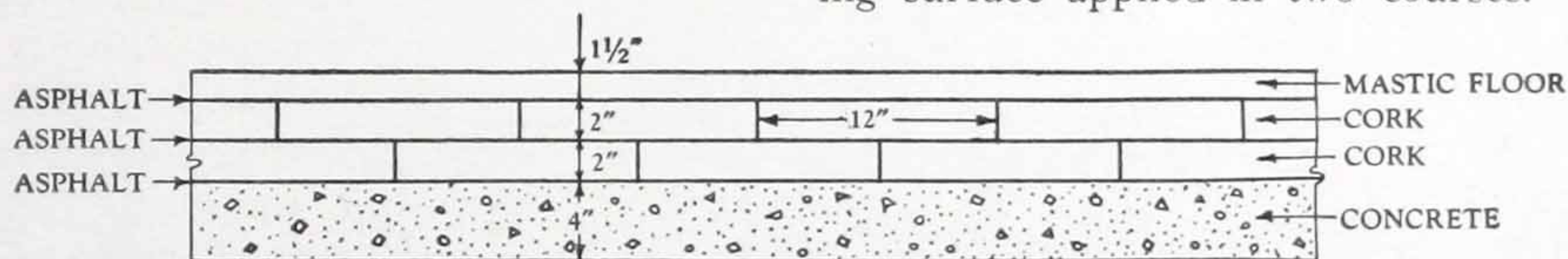
A wearing floor of 2x.... in. long leaf yellow pine shall then be applied, securely nailed to the sleepers provided in the top layer of corkboard.



### Specification No. 8—Mastic Floors, Concrete Base

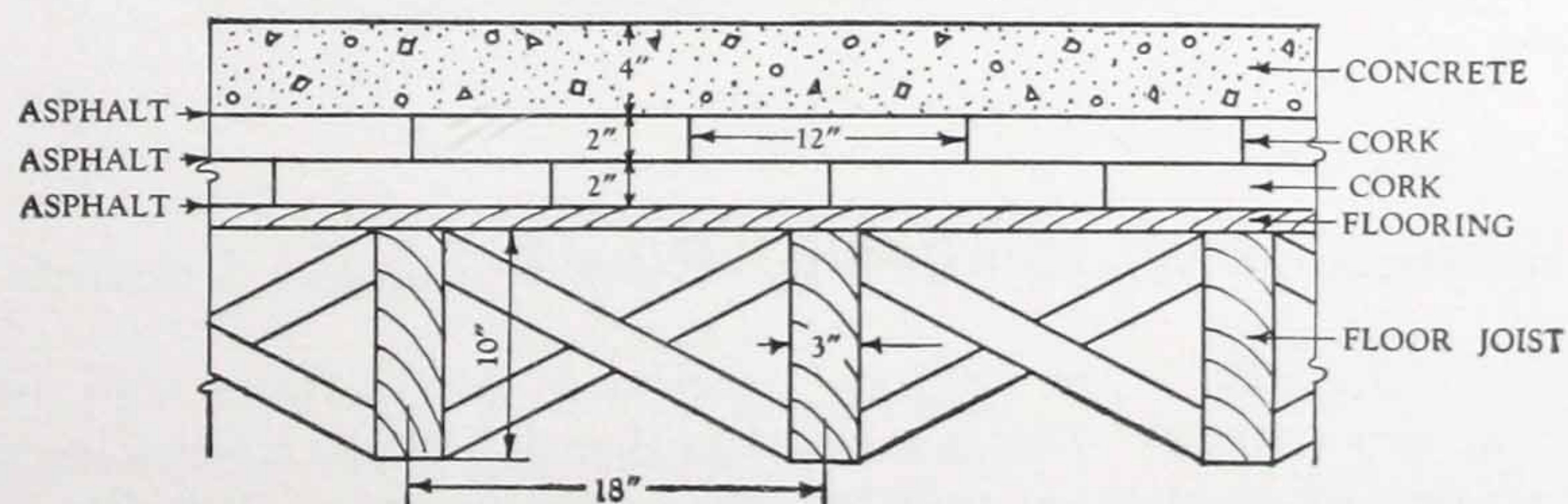
The floor insulation shall be laid as in Specification No. 6.

The finish floor shall consist of a 2-in. mastic wearing surface applied in two courses.



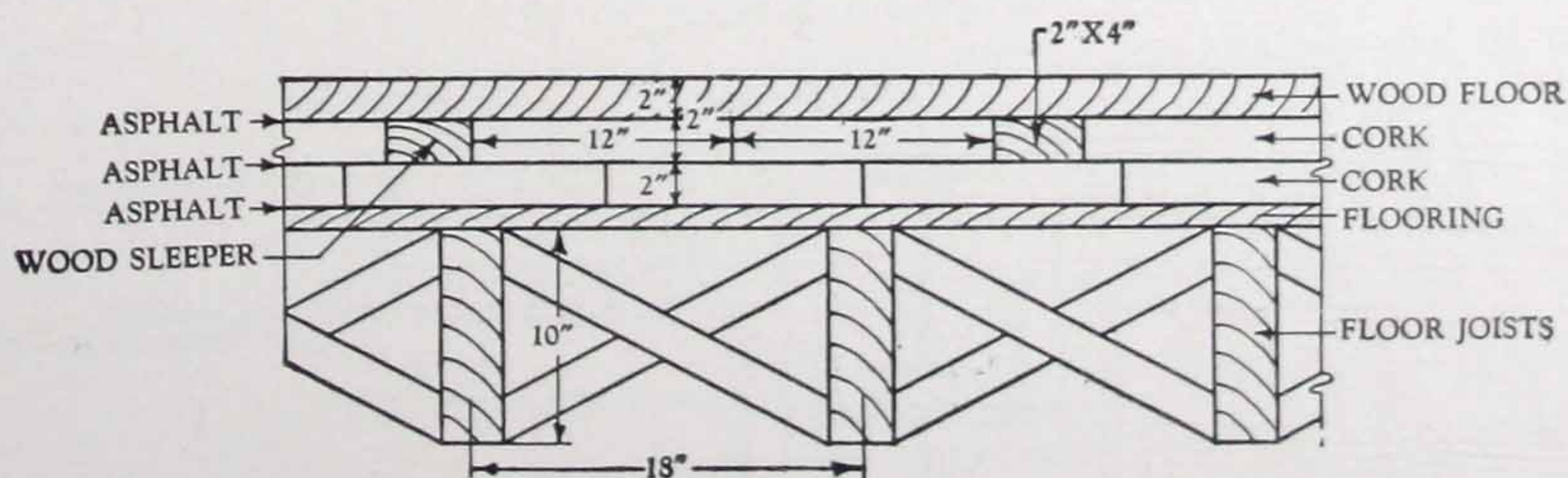
### Specification No. 9—Concrete Floors, Wood Base

The floor shall be insulated as in Specification No. 6.



### Specification No. 10—Wood Floors, Wood Base

The floors shall be insulated as in Specification No. 7.





## Specification No. 11—Ceilings, Concrete

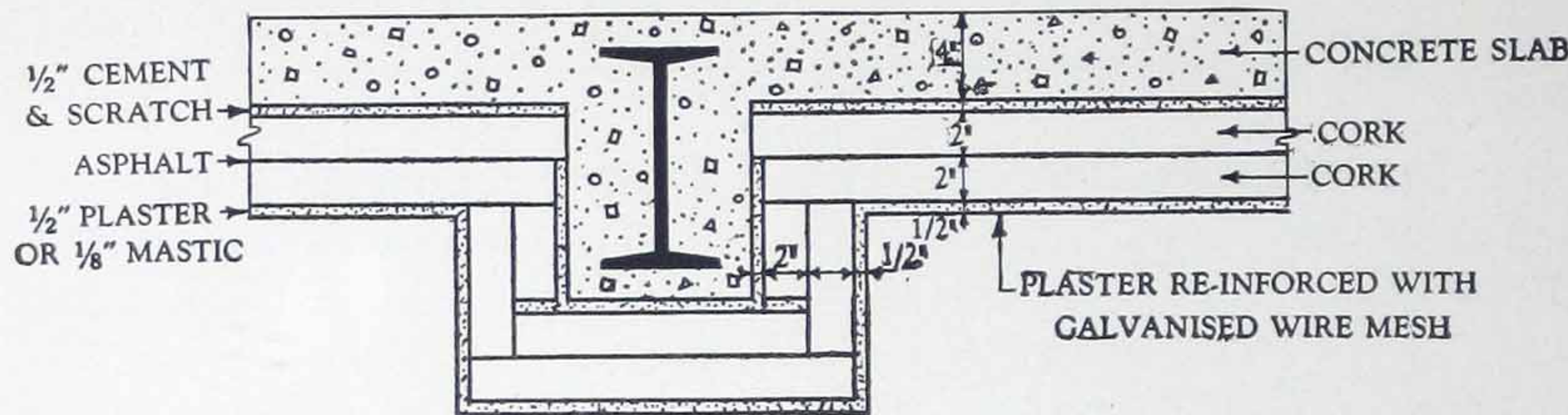
The ceiling shall be insulated with ... in. of "Jointite" Corkboard applied in two courses. The soffit of ceiling slab shall first be thoroughly hacked and pitted and shall then receive a tight scratch coat of portland cement mortar.

The first course of corkboard shall then be applied in a  $\frac{1}{2}$ -in. bed of portland cement mortar and securely propped in place until the cement has set. The second course of corkboard shall then be applied against the

first course in a heavy dip coat of hot asphalt, and additionally secured with hardwood skewers of suitable length. All joints shall be broken relative to adjacent layers and to the preceding course.

The exposed cork surfaces shall be finished as provided in specification No. 1.

*Note:* If plaster finish is desired it is recommended that No. 19-gauge galvanized wire mesh having two meshes to the inch be securely stapled to the cork surfaces before plaster finish is applied.

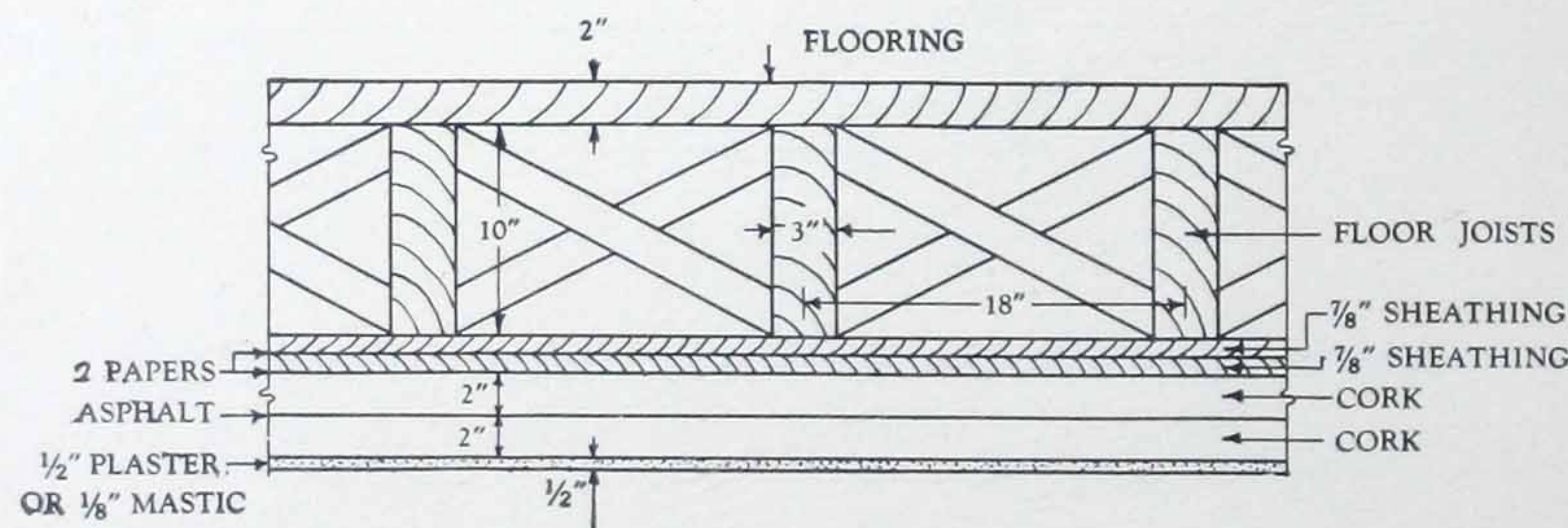


## Specification No. 12—Ceilings, Wood

The ceiling shall be insulated with ... in. of "Jointite" Corkboard in two courses over wood sheathing.

Two layers of  $\frac{7}{8}$ -in. tongued and grooved sheathing shall be installed on the underside of ceiling joists with two layers of waterproof insulation paper between the sheathing courses, and two layers of waterproof insula-

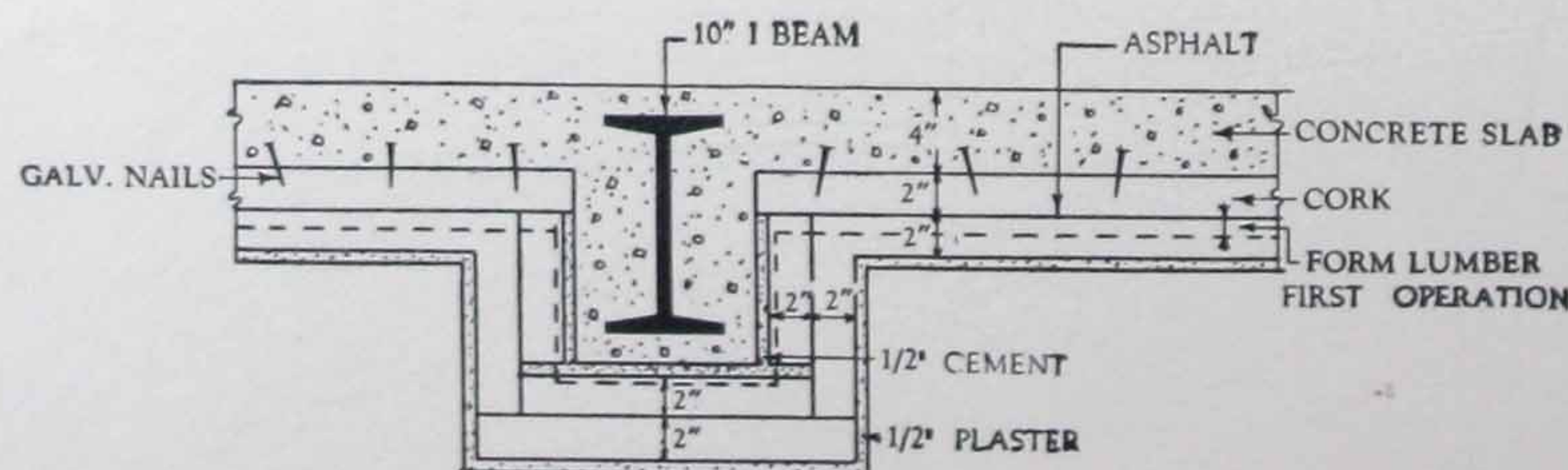
tion paper securely tacked to the underside of the sheathing. On the ceiling surface thus prepared shall be erected the first layer of corkboard, nailing each piece securely in place. The second course of corkboard shall then be applied against first course in a dip coat of hot asphalt and finished as provided in Specification No. 1.



## Specification No. 13—Ceilings (New Buildings) Concrete

The ceilings shall be insulated with ... in. of "Jointite" Corkboard applied in two courses. The general contractor will lower the forms of the slab construction a distance sufficient to allow the first course of corkboard to be laid dry in the forms. There shall be at least six special galvanized nails placed in each sheet of

corkboard laid in forms with the heads protruding not less than  $1\frac{1}{2}$  in., to act as a key in the concrete. After the forms are stripped the second course of corkboard and both courses of corkboard on the beams and girders shall be applied and finished as in Specification No. 11.

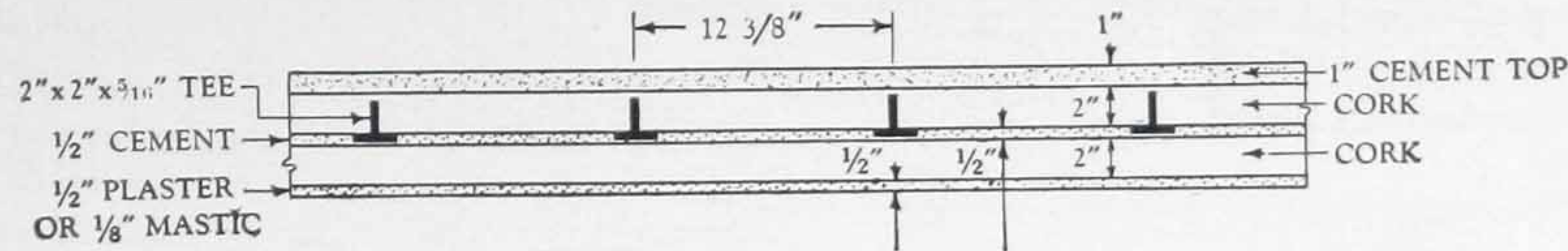




### Specification No. 14—Ceilings, False T Iron

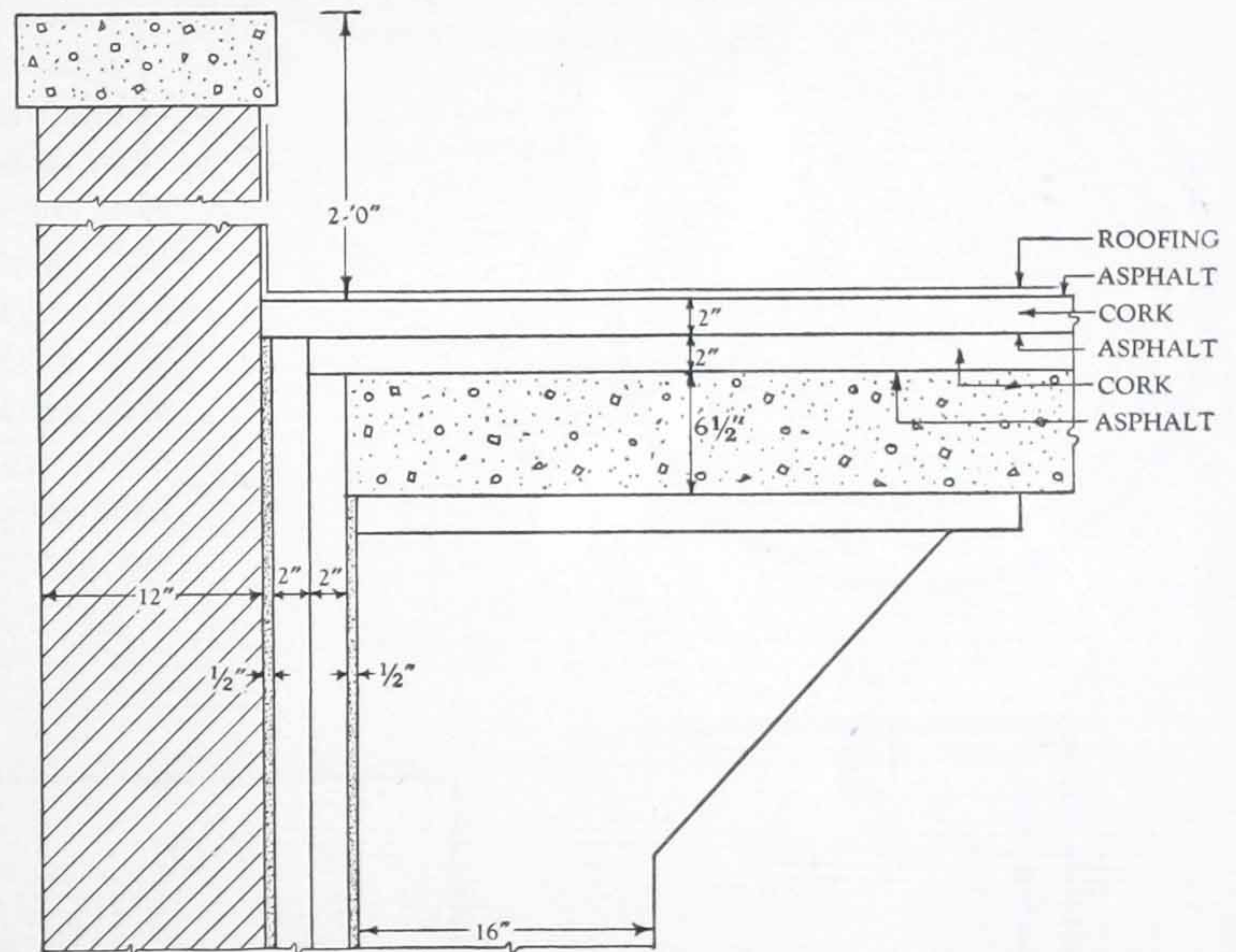
The ceilings shall be insulated with ... in. of "Jointite" Corkboard applied in two courses. A framework consisting of 2x2x... in. tee irons spaced on 12½-in. centers, shall be erected upon 2x2-in. wood framing concealed in the cork wall insulation. The first course of corkboard shall be placed between the tee irons after all edges have been dipped in hot asphalt. The second course of corkboard shall be applied against the under-

side of the first course in a ½-in. bed of portland cement mortar, and additionally secured with hardwood skewers of suitable length. All joints in the second course shall be broken relative to adjacent layers and to the first course. The top exposed surface of the corkboard shall be finished with 1 in. of portland cement plaster left under the float. The underside of the insulation shall be finished as provided in Specification No. 1.

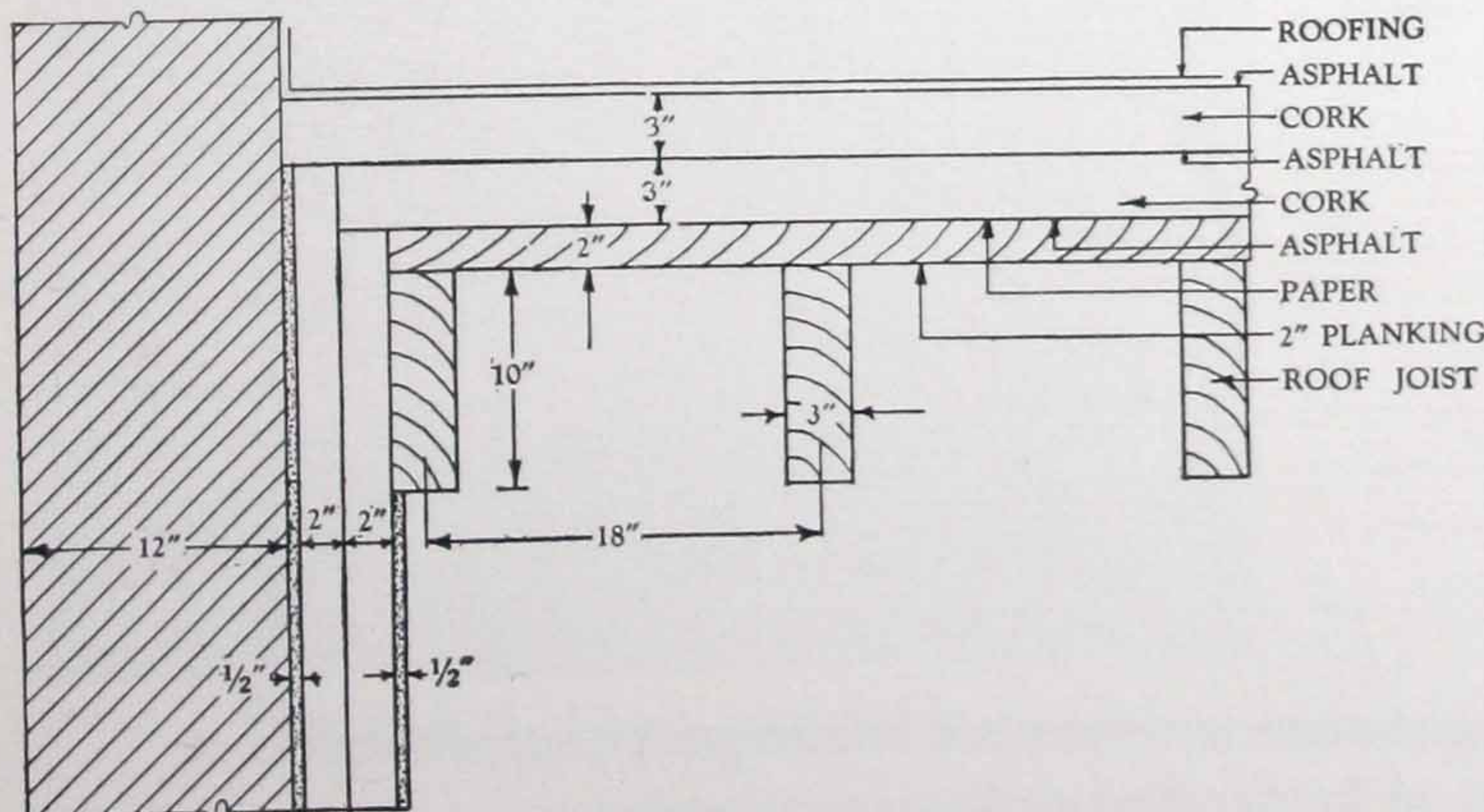


### Specification No. 15—Roofs, Concrete

The roof slab shall be insulated with ... in. of "Jointite" Corkboard applied in two courses. The first course of corkboard shall be laid down on the concrete slab in a heavy mop coat of hot asphalt, and against it a second course of corkboard shall be applied in like manner. All joints shall be broken relative to adjacent layers and to the preceding course. The exposed cork surfaces are to remain uncoated and left ready for the roofing contractor to lay his roofing. The cork contractor and the roofing contractor shall co-operate with each other in order that all insulation laid in any one day will be protected with at least two-ply roofing.



### Specification No. 16—Roofs, Wood



The roof shall be insulated with ... in. of "Jointite" Corkboard applied in two courses. Over the roof planking shall be laid one course of waterproof insulation paper with the seams lapped at least 3 in. and mopped in with hot asphalt. The cork insulation shall then be applied as in Specification No. 15.







## Specification No. 18—Coil Bunker Construction

A coil loft or bunker shall be constructed, supported on . . . x . . . in. timbers spaced 20 in. apart (Item 1), which shall be suitably supported in walls.

Wood cleats 2x4 in. (Item 2), shall then be securely bolted to the sides of the timbers and will act as supports for the warm air baffles (Item 4).

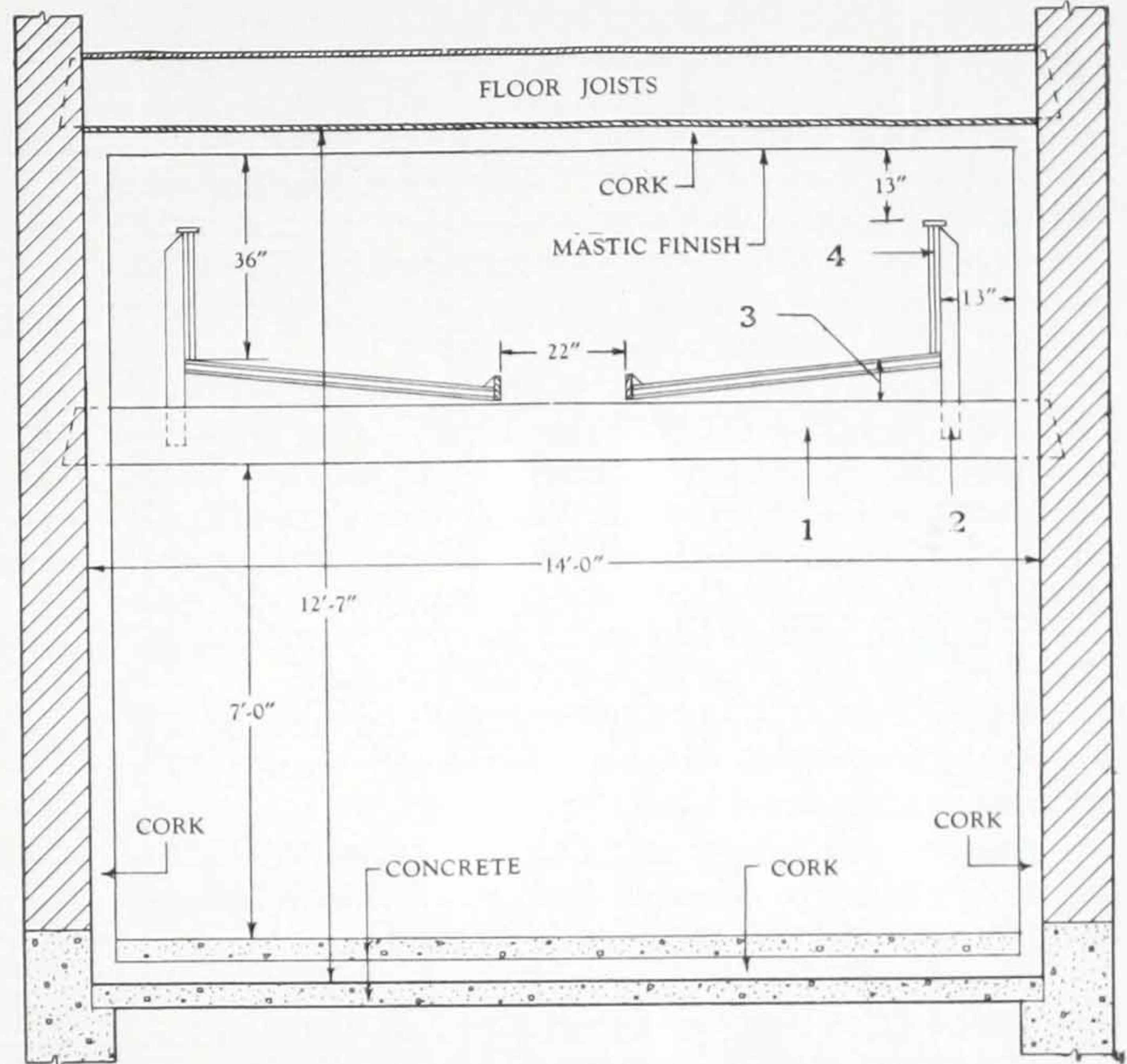
The top of the timbers shall then be given the correct slope by nailing tapered strips, which shall be the width of the timber and shall vary from 3 in. high at the outside end to 1 in. at the inside. These tapered strips shall then be sheathed with  $\frac{7}{8}$ -in. tongued and grooved sheathing of spruce or cypress, over which shall be laid two courses of waterproof insulation paper, followed by a single course of 2-in. corkboard, laid down in and coated with hot asphalt.

In the corkboard shall be buried 2x2-in. wood sleepers on 26-in. centers, which will act as nailing strips for the  $\frac{7}{8}$ -in. tongued and grooved sheathing which shall be placed over the corkboard together with two layers of waterproof insulation paper, all securely nailed to the sleepers (Item 3). The top surface of bunker floor shall then be covered with No. 24-gauge galvanized iron (or copper) lining flashed up on the warm air baffles a distance of 12 in., and provided at the low point with a scupper for drainage connection. The baffles shall be constructed of two courses of  $\frac{7}{8}$ -in. tongued and grooved sheathing with two layers of waterproof insulation paper between them, all securely nailed to the wooden cleats mentioned above (Item 4).

The edges of the cold air duct shall be formed

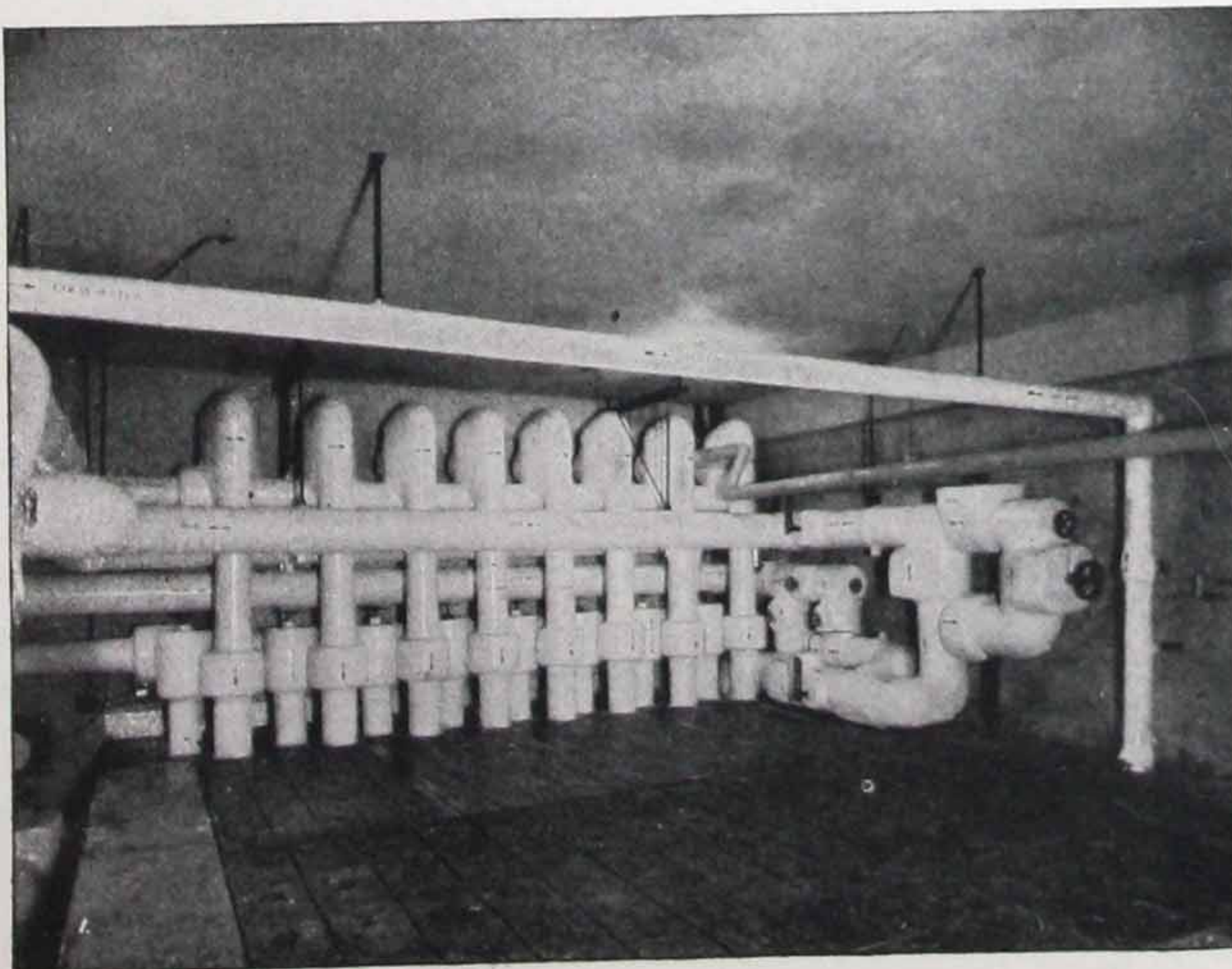
with 2x8-in. timbers securely fastened to the bunker timbers. The metal lining of the bunker shall extend over these timbers and shall be lapped vertically downward at least 2 in.

*Note:* For rooms having less than 8 ft. inside clear width, it is customary to use a single bunker pan. In rooms of greater than 8-ft. width the double bunker pan illustrated should be used. It is customary to make the total duct widths equal to about 30% of total width of room.



Section Showing Coil Bunker Construction

## "JOINTITE" MOULDED CORK PIPE COVERING



New York State Psychiatric Institute and Hospital,  
New York, N. Y.

All the insulating qualities of cork hereinbefore explained for cold storage, and its resistance to heat transmission generally, apply equally to its value as insulation for cold piping. It affords a most efficient and permanent means for protecting cold water, brine, and ammonia pipe lines and fittings.

"Jointite" Moulded Cork Pipe Covering is made of pure granulated cork compressed and moulded in forms and baked as described for corkboard. Following the baking process each piece of pipe covering is covered all over with a mineral rubber finish which prevents damage from moisture or frost.

Various moulded shapes are made both for pipe and fittings so that all parts of the pipe lines may be neatly and adequately covered.



### Suggested Thickness

*Note:* The numbered items shown below are for coverings of various standard thicknesses and for purposes as indicated. Reference will be made to this list in specification text.

- (1) Ice Water Covering for lines where temperatures of 35° F. and higher are carried.
- (2) Standard Brine Cork Covering for ammonia and brine lines where temperature ranges from 5° F. to 35° F.
- (3) Special Thick Covering for temperatures below 5° F.

### Specification A

*Note:* The following specification is used more than any other, covering probably 75% of all pipe covering installations.

**Pipe**—After the pipe lines have been tested and approved, they shall be insulated with "Jointite" [(1), (2) or (3)] Cork Pipe Covering. All contact joints shall be sealed with Mundet Waterproof Cement. All contact joints shall be butted closely and firmly together and secured with copper clad steel wire, spaced at intervals of not more than 6 in. All seams shall be horizontal. All mated sections shall be used together. The so-called "broken joint" method must not be used.

**Fittings**—The fittings shall be insulated with "Jointite" Moulded Cork Fitting Covers of a thickness to match the above pipe covering. All contact joints shall be sealed with Mundet Waterproof Cement. All joints shall be butted closely and firmly together and secured with not less than four copper clad steel wires. On all flanged fittings and on all screwed fittings larger than 6 in., not less than six wires shall be used.

**Voids**—All spaces between fittings and fitting covers shall be filled with either Mundet Brine Putty or Fine Regranulated Cork.

**Seams**—All seams and chipped edges in the fitting covers and pipe covering shall be filled with Mundet Seam Filler and the surface made smooth.

**Finish**—The entire outer surface of the insulation shall receive one coat of Mundet Finish Paint.

**Hangers**—Pipe Lines shall be supported, in every case, outside of the covering and shall be protected by carefully fitted metal shields extending 4 in. on each side of the hanger. The shield shall embrace the entire lower semicircle.

**Spacing**—Minimum spacing between pipes and adjacent surfaces shall be as follows:

Thickness		Clear space between pipes, in.	Clear space between pipes and walls, etc., in.
Brine	Screwed fittings under 6 in.	8	6
	Screwed fittings over 6 in. and flanged fittings	14	8
Special thick	Screwed fittings under 6 in.	10	8
	Screwed fittings over 6 in. and flanged fittings	18	12
Ice water thick	Screwed fittings under 6 in.	6	4
	Screwed fittings over 6 in. and flanged fittings	10	5

### Specification B

*Note:* For use in hotel kitchens, damp cellars, creameries, packing houses, etc., and wherever the atmosphere is saturated with moisture or steam. Essential for outdoor pipe lines where the cork covering is exposed to the weather.

**Pipe, Fittings, Voids, Seams**—*Note:* Specifications under these headings same as Specification A.

**Roofing**—After the seams have been filled, there shall be applied ... layers of ... ply smooth surfaced roofing. Each joint shall be lapped not less than 2 in. The laps shall be sealed with asphalt paint and secured with staples or copper clad steel wire. All laps shall be laid in such a manner as to form a watershed.

**Finish, Hangers, Spacing**—*Note:* Specifications under these headings same as Specification A.

### Specification C

*Note:* A canvas and paint finish for neatness and to harmonize with surrounding decorations or equipment.

**Pipe, Fittings, Voids, Seams**—*Note:* Specifications under these headings same as Specification A.

**Canvas**—After the seams have been filled, the pipe covering shall be wrapped with No. 8 Rosin Sized Paper, and the fittings shall be given a coat of asbestos cement, troweled on, and of sufficient thickness to give a smooth base for canvas. Over the pipe and fittings, a jacket of 8-oz. canvas shall be neatly sewn, using not less than three stitches to the inch. All seams shall be located along the line of minimum visibility.

**Finish**—The canvas jacket shall be sized and painted with two coats of lead and oil paint.

**Hangers, Spacing**—Specification under this heading, same as Specification A.

### Specification D

*Note:* Unsurpassed for low temperature piping, and offering an ideal surface protection to the mineral rubber finish on cork pipe covering.

**Pipe, Fittings, Voids, Seams**—Specifications under these headings same as Specification A.

**Membrane Jacket**—Over the fittings there shall be applied a layer of mineral rubber cloth, lapped not less than 2 in. and sealed with asphalt paint. Starting with a 2-in. lap upon the fittings, the straight pipe shall be wrapped spirally with a layer of rubberized adhesive membrane tape lapped not less than 1 in.

**Finish**—Finish to be either as in Specification A or Specification C.

**Hangers, Spacing**—Specifications under this heading same as Specification A.

## "JOINTITE" CORK LAGGING

### Suggested Thickness

*Note:* The numbered items shown below are for covering of various standard thicknesses and for purposes as indicated. Reference will be made to this list in specification text.

- |                                   |                  |                          |
|-----------------------------------|------------------|--------------------------|
| (1) Above 40° F.                  | 2 in. of lagging |                          |
| (2) Above 25° F. and below 40° F. | 3 in. of lagging |                          |
| (3) Above 10° F. and below 25° F. | 4 in. of lagging | } Applied in two courses |
| (4) Below 10° F.                  | 6 in. of lagging |                          |

We make moulded cork lagging and discs for the insulation of cylindrical tanks and coolers. The lagging is cut to order to any desired radius. If desired, the lagging can be furnished with a 1/8-in. mastic coating, ironed in at the factory.



### Specification E

*Note:* This specification is usually used in conjunction with Specification A.

**Lagging—(1) Tank Surfaces**—After the cooler or tank has been tested and approved, the body of the tank shall be insulated with [see items (1), (2), (3) and (4)] ..... in. of "Jointite" Beveled Cork Lagging, applied in ..... courses. The first course shall be applied against the tank (with or without mineral rubber finish on the inside), with all contact joints firmly and securely butted together and sealed with Mundet Waterproof Cement. The lagging shall be further secured with copperclad steel wire spaced at intervals of not more than 6 in. The second course of lagging shall then be applied against the first course in the same manner as above with all joints in the lagging broken with respect to the first.

**(2) Flanges**—The flanges shall be insulated in the same manner as the tank surfaces. The flange lagging shall lap upon the body lagging, and shall project beyond the outermost portion of the head, coming a distance equal to the thickness of the tank insulation.

**Discs**—The heads shall be insulated with "Jointite" Corkboard Discs of the same total thickness as the tank insulation (with or without mineral rubber finish on the inside ironed on at the factory). The discs shall be applied directly against the head of the tank and supported by the flange lagging.

**Voids**—Any spaces between the lagging and the tank body shall be filled with Mundet Brine Putty. The spaces between the bolts and flanges shall be filled with Mundet Brine Putty. The spaces between the heads and the flanges shall be filled with fine regranulated cork.

**Finish**—The entire outer surface of the insulation shall have a mineral rubber finish ironed on at the factory. After the insulation is completed all seams and chipped edges shall be filled with Mundet Seam Filler.

**Painting**—The entire outer surface shall receive one coat of Mundet Finish Paint.

### Specification F

*Note:* This specification is often used in conjunction with Specification C.

**Lagging, Discs, Voids, Finish**—*Note:* Specifications under these headings same as Specification E.

**Canvas**—After the seams have been filled, the outer surface of the tank shall be covered with a layer of No. 8 Rosin Sized Paper. Over the paper shall be sewn a jacket of 8-oz. canvas. All seams shall be of the invisible type and shall have not less than three stitches to the inch.

**Painting**—The canvas shall be sized and painted with two coats of lead and oil paint.

### Specification G

*Note:* This specification is very commonly used where a neat appearance, plus the ability to withstand a certain amount of rough usage is desired.

**Lagging—(1) Tank Surfaces**—After the cooler or tank has been tested and approved, the body shall be insulated with ..... in. of "Jointite" Beveled Cork Lagging applied in ..... courses. The first course shall be applied against the tank (with or without mineral rubber finish on the inside), with all contact joints firmly and securely butted together. The lagging shall be secured with copper clad steel wire spaced at intervals of not more than 6 in. The second course of lagging shall then be applied against the first course in the same manner as above with all joints in the lagging broken with respect to the first course.

**(2) Flanges**—The flanges shall be insulated in the same manner as the tank surfaces. The flange lagging shall lap upon the body lagging for 12 in. and shall project beyond the outermost portion of the head a distance equal to the thickness of the tank insulation.

**Discs, Voids, Finish**—Specifications under these headings same as Specification E.

**Plaster**—After the seams have been filled, the outer surface of the insulation shall be covered with a layer of 1-in. hexagonal mesh galvanized wire, securely stapled to the insulation. Over the wire shall be applied two coats of portland and asbestos cement plaster. The first coat shall be a rough or scratch coat; the second coat shall be troweled to a smooth and even finish.

**Painting**—Optional.



**New York Life Insurance Co. Building,  
New York, N. Y.**

Erected on site of the old Madison Square Garden. All cold lines are insulated with Mundet "Jointite" Moulded Cork Covering



## ROOF INSULATION

### Insulation of Roofs to Prevent Condensation

It is our purpose to show under this heading the great value of proper insulation applied to roofs, in order that the annoying and frequently expensive problem of ceiling "sweat," or condensation, may be overcome.

It is generally recognized today that correct building design must include insulation. The heat transmitted from uninsulated roofs in the winter results in a needless loss, the cost of which comes to a staggering total.

In the summer, these same roofs absorb a tremendous amount of heat and deliver it to the rooms below, thus causing discomfort to, and impairing the efficiency of, people who are working in these areas. In certain commercial plants where the humidity and often the temperature must be governed at a high point, due to the processes of manufacture, an uninsulated roof will inevitably chill the air in its vicinity during the winter months to the point where some of its moisture condenses and forms what is commonly known as ceiling "sweat." The moisture drops to the floor, producing a most annoying condition to people who are working in the room and often causing damage to property, since it will drop upon any materials and machinery that may be underneath. The loss due to condensation must be considered separately from the direct loss due to heat leakage through the roof, the latter being present in all uninsulated construction while the former appears only when the humidity is relatively high or when the difference in temperature between the inside of the roof and the room is of considerable magnitude.

Numerous industries are in the position of, for example, textile mills, which have, as one of the prerequisites for proper manufacturing, a high degree of relative humidity. Many textile mills are located in New England, and in winter are operating with a great variation between the inside and outside temperatures of their buildings. Unless these buildings are insulated, the walls and roofs become very much colder, on the inside, than the surrounding air. This cold is transmitted to the adjacent air, which, upon cooling, reaches the point of total saturation, or dewpoint, and deposits its moisture upon the cold surfaces, from which come the drip. The resultant losses may be grouped as follows:

- (1) Direct losses.
  - (a) Heat transmitted through roof and walls.
  - (b) Damage to goods in process of manufacture.
  - (c) Decreased efficiency of labor.
- (2) Indirect losses.
  - (a) Damage to machinery.
  - (b) Deterioration of buildings, particularly of wooden construction.
  - (c) Lowered morale of labor due to unpleasant working conditions.

Unfortunately, it is only recently that industry has begun to subject its inherited losses to a careful scrutiny. In the past, ceiling condensation was regarded as a necessary evil, and an inevitable concomitant of high relative humidity. Advanced engineering practice in new buildings, however, has demonstrated its worth to the point where manufacturers have begun to realize that their old equipment cannot compete with new equipment unless it is brought up to date. However, the tendency to maintain a given status quo, plus the inhibition against spending money upon old equipment, has produced a considerable inertia. It is for this reason

that all roofs are not insulated, although there have been instances without number where cork insulation has been installed in an existing plant and has paid for itself within two or three years in the single item of coal required for heating.

When bringing to the attention of manufacturers the need for cork insulation in buildings, the greater stress has been laid upon the resultant saving in fuel. Today, however, industrial executives in ever increasing numbers are realizing that a most important factor in their problem of keeping costs at a minimum is the attitude of their labor. A worker is never efficient when he is uncomfortable, and therefore the use of insulation, while it may be considered as an intangible benefit from this angle, is nevertheless of vital import.

The other factors that go to make up the losses in uninsulated construction depend entirely upon individual cases, and it is difficult to evaluate them in general terms, but it is reasonable to conclude that they are present in all cases to a greater or less degree and must eventually appear in the costs of manufacture.

Mention was made, in the foregoing text, of the losses caused by condensation in the textile industry; but it must not be assumed that this industry stands alone. Below are listed a number of types of buildings that are prone to condensation troubles.

Bakeries	Power houses
Creameries	Swimming pools
Laundries	Textile mills—cotton, wool and silk
Lumber drying rooms and kilns	Tobacco factories
Packing houses	Turkish baths
Killing rooms	Twine mills
Paper mills	

### Thickness of Corkboard Needed

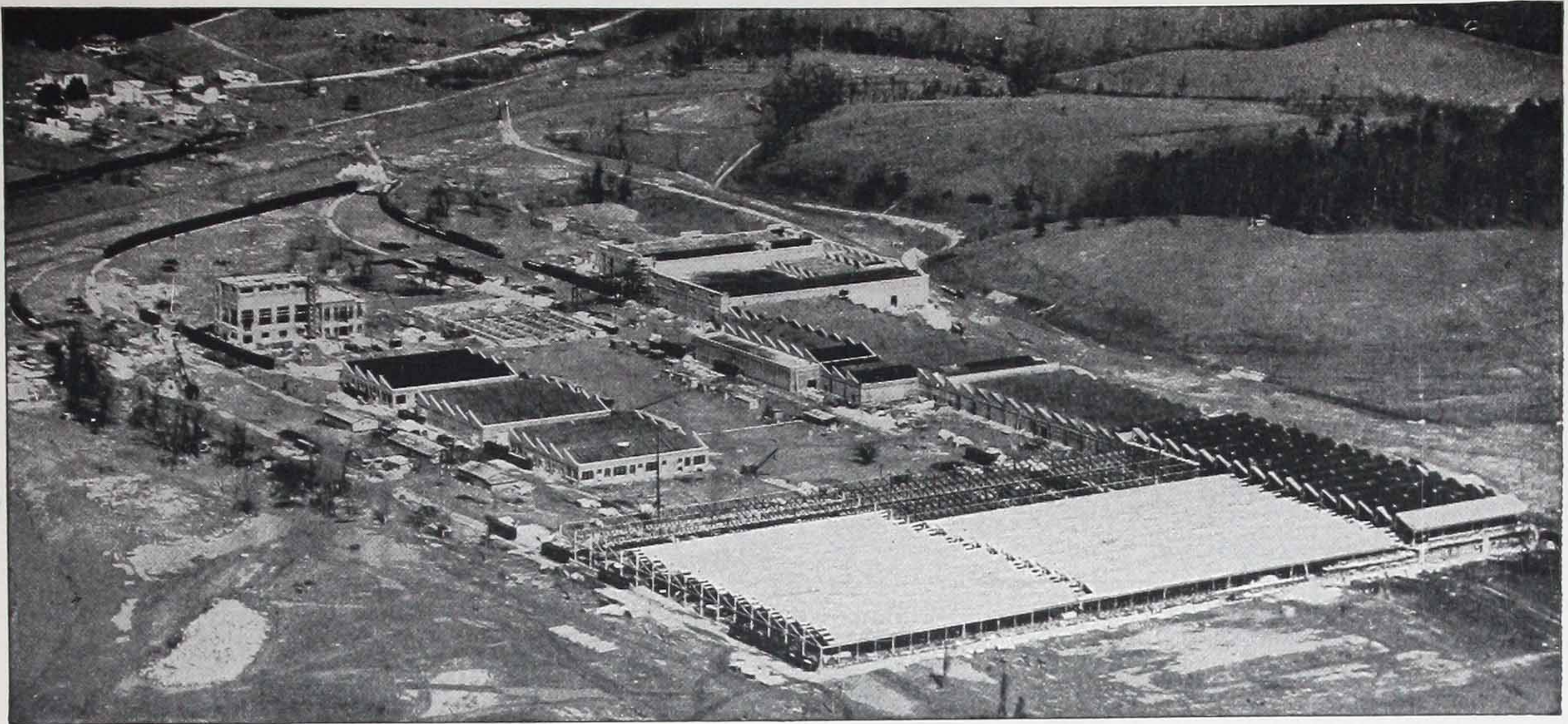
It has already been shown that cork is an ideal insulation for this work. The next important thing to determine is the thickness of corkboard that must be used.

There is no rule of thumb by which it is possible to determine what thickness of cork insulation is required for any given roof. The thickness of insulation is an exact function of the humidity present, the nature of the wall or roof construction, its own co-efficient of heat transmission, and the maximum temperature difference on the two sides of the building construction. In order to facilitate the determination of the correct thickness of corkboard insulation for roofs, a special chart has been included in this section (see page 13) upon which it is possible to read directly the permissible heat loss for any given set of conditions. Upon page 12 will be found a table showing the heat loss of all common types of roof construction. Under each type is shown the heat loss of that construction with various thicknesses of "Jointite" Corkboard Insulation. Typical cases are also shown graphically in illustrations on page 15.

The easiest way of demonstrating the use of the chart, table and illustrations will be to show the working of an actual case. Following is a typical problem: A manufacturing plant is equipped with a 3-in. yellow pine roof and standard 5/8-in. built-up roofing. The inside temperature (dry bulb) at the ceiling is 70° F., the relative humidity is 80%, and the lowest temperature during the winter is minus 10° F.

Locate the line of 70° upon the room temperature scale at the top of the chart and follow down to the 80% relative humidity diagonal. Follow horizontally





**Airplane View of the American Enka Corporation's Plant at Asheville, N. C.**

Showing clearly the 75 acres occupied by the plant and the great area of sawtooth and flat roofing, all of which was insulated by Mundet "Jointite" Corkboard

across the chart to the line of  $80^{\circ}$  maximum temperature difference on the lower scale. Interpolation between the bounding heat loss diagonal lines will show the heat loss to be .124. Referring to the heat transmission table, we find that in connection with a 3-in. yellow pine roof and  $\frac{5}{8}$ -in. built-up roofing,  $1\frac{1}{2}$  in. of Mundet "Jointite" Corkboard will give sufficient insulation to preclude the possibility of condensation for the above set of conditions.

### Specifications

*Note:* The following specifications will be found to cover the usual typical cases of roof insulation:

(1) **On Wood Deck Construction**—On top of wood deck, first apply a single layer of ..... roofing felt laid in hot asphalt with joints lapped 3 in. Following this lay one course of .... in. Mundet "Jointite"

Corkboard, laid in a heavy mop coat of hot asphalt, the exposed cork surfaces to be left dry, ready for the application of the roofing.

(2) **Over Concrete Construction**—On top of the concrete roof slab first apply two coats of asphalt primer, following which .... in. Mundet "Jointite" Corkboard is to be laid in a heavy mop coat of hot asphalt, the exposed cork surfaces to be left dry, ready for the application of the roofing.

(3) **Over Steel Roof Decks**—On top of steel deck lay one course of .... in. Mundet "Jointite" Corkboard, laid in a heavy mop coat of hot asphalt, the exposed cork surfaces to be left dry, ready for the application of the roofing.

*Note:* Should roof insulation consist of two-layer work, the second course shall be applied on top of the first course in a dip coat of hot asphalt, with all transverse joints broken.



**Laying Cork Insulation on Roof**



## HEAT TRANSMISSION

TABLE SHOWING HEAT LOSSES THROUGH ROOFS

## Use of Chart

Construction	Transmission in B.t.u. per sq. ft. per degree difference in tem- perature per hour
2-in. concrete slab and roofing, no insulation.....	.658
2-in. concrete slab and roofing, 1 -in. Jointite Corkboard.....	.206
2-in. concrete slab and roofing, 1½-in. Jointite Corkboard.....	.153
2-in. concrete slab and roofing, 2 -in. Jointite Corkboard.....	.122
2-in. concrete slab and roofing, 3 -in. Jointite Corkboard.....	.087
2-in. concrete slab and roofing, 4 -in. Jointite Corkboard.....	.067
3-in. concrete slab and roofing, no insulation.....	.610
3-in. concrete slab and roofing, 1 -in. Jointite Corkboard.....	.201
3-in. concrete slab and roofing, 1½-in. Jointite Corkboard.....	.151
3-in. concrete slab and roofing, 2 -in. Jointite Corkboard.....	.120
3-in. concrete slab and roofing, 3 -in. Jointite Corkboard.....	.086
3-in. concrete slab and roofing, 4 -in. Jointite Corkboard.....	.067
4-in. concrete slab and roofing, no insulation.....	.568
4-in. concrete slab and roofing, 1 -in. Jointite Corkboard.....	.197
4-in. concrete slab and roofing, 1½-in. Jointite Corkboard.....	.148
4-in. concrete slab and roofing, 2 -in. Jointite Corkboard.....	.118
4-in. concrete slab and roofing, 3 -in. Jointite Corkboard.....	.085
4-in. concrete slab and roofing, 4 -in. Jointite Corkboard.....	.066
6-in. concrete slab and roofing, no insulation.....	.500
6-in. concrete slab and roofing, 1 -in. Jointite Corkboard.....	.187
6-in. concrete slab and roofing, 1½-in. Jointite Corkboard.....	.143
6-in. concrete slab and roofing, 2 -in. Jointite Corkboard.....	.115
6-in. concrete slab and roofing, 3 -in. Jointite Corkboard.....	.083
6-in. concrete slab and roofing, 4 -in. Jointite Corkboard.....	.065
2-in. Yellow Pine and roofing, no insulation.....	.345*
2-in. Yellow Pine and roofing, 1 -in. Jointite Corkboard.....	.160
2-in. Yellow Pine and roofing, 1½-in. Jointite Corkboard.....	.127
2-in. Yellow Pine and roofing, 2 -in. Jointite Corkboard.....	.105
2-in. Yellow Pine and roofing, 3 -in. Jointite Corkboard.....	.078
2-in. Yellow Pine and roofing, 4 -in. Jointite Corkboard.....	.062
3-in. Yellow Pine and roofing, no insulation.....	.256*
3-in. Yellow Pine and roofing, 1 -in. Jointite Corkboard.....	.138
3-in. Yellow Pine and roofing, 1½-in. Jointite Corkboard.....	.112
3-in. Yellow Pine and roofing, 2 -in. Jointite Corkboard.....	.095
3-in. Yellow Pine and roofing, 3 -in. Jointite Corkboard.....	.072
3-in. Yellow Pine and roofing, 4 -in. Jointite Corkboard.....	.058
Sheet steel deck and roofing, no insulation.....	1.000†
Sheet steel deck and roofing, 1 -in. Jointite Corkboard.....	.231
Sheet steel deck and roofing, 1½-in. Jointite Corkboard.....	.167
Sheet steel deck and roofing, 2 -in. Jointite Corkboard.....	.130
Sheet steel deck and roofing, 3 -in. Jointite Corkboard.....	.091
Sheet steel deck and roofing, 4 -in. Jointite Corkboard.....	.067
4-in. hollow tile, ⅝-in. roofing, no insulation.....	.485‡
4-in. hollow tile, ⅝-in. roofing, 1 -in. Jointite Corkboard.....	.187
4-in. hollow tile, ⅝-in. roofing, 1½-in. Jointite Corkboard.....	.142
4-in. hollow tile, ⅝-in. roofing, 2 -in. Jointite Corkboard.....	.114
4-in. hollow tile, ⅝-in. roofing, 3 -in. Jointite Corkboard.....	.083
4-in. hollow tile, ⅝-in. roofing, 4 -in. Jointite Corkboard.....	.065
6-in. hollow tile, ⅝-in. roofing, no insulation.....	.398‡
6-in. hollow tile, ⅝-in. roofing, 1 -in. Jointite Corkboard.....	.171
6-in. hollow tile, ⅝-in. roofing, 1½-in. Jointite Corkboard.....	.133
6-in. hollow tile, ⅝-in. roofing, 2 -in. Jointite Corkboard.....	.109
6-in. hollow tile, ⅝-in. roofing, 3 -in. Jointite Corkboard.....	.080
6-in. hollow tile, ⅝-in. roofing, 4 -in. Jointite Corkboard.....	.063

\*On yellow pine, nominal thickness specified, actual thickness used in tests.

†Factor as furnished by the Truscon Steel Co.

‡½-in. plaster on underside and 2-in. concrete roof slab over tile is assumed.

Locate the room temperature on Room Temperature Scale at top of chart and follow down on the corresponding line to its intersection with the line which represents the required humidity percentage, finding this point by interpolating, if necessary, on that segment of the vertical line between the diagonal lines, to obtain any required intermediate percentage between those shown in the left-hand column. For the sake of explanation the horizontal line so found will be referred to as the "humidity horizontal" for any particular case in point.

Next, determine the point of maximum difference in temperature on the scale at the bottom of the chart and follow up on the corresponding vertical line until it intersects the "humidity horizontal" and consider the point of intersection as point "A." Note where point "A" lies between two of the diagonal lines which represent amount of heat loss, and by interpolation between these light lines determine its value as compared to the figures in the right-hand column. The value so found will be the maximum allowable heat loss.

Determine from the Table of Heat Loss the thickness of insulation which will show a heat loss less than the value of "A" using the section of the table which shows the proposed type of construction combined with the insulation.

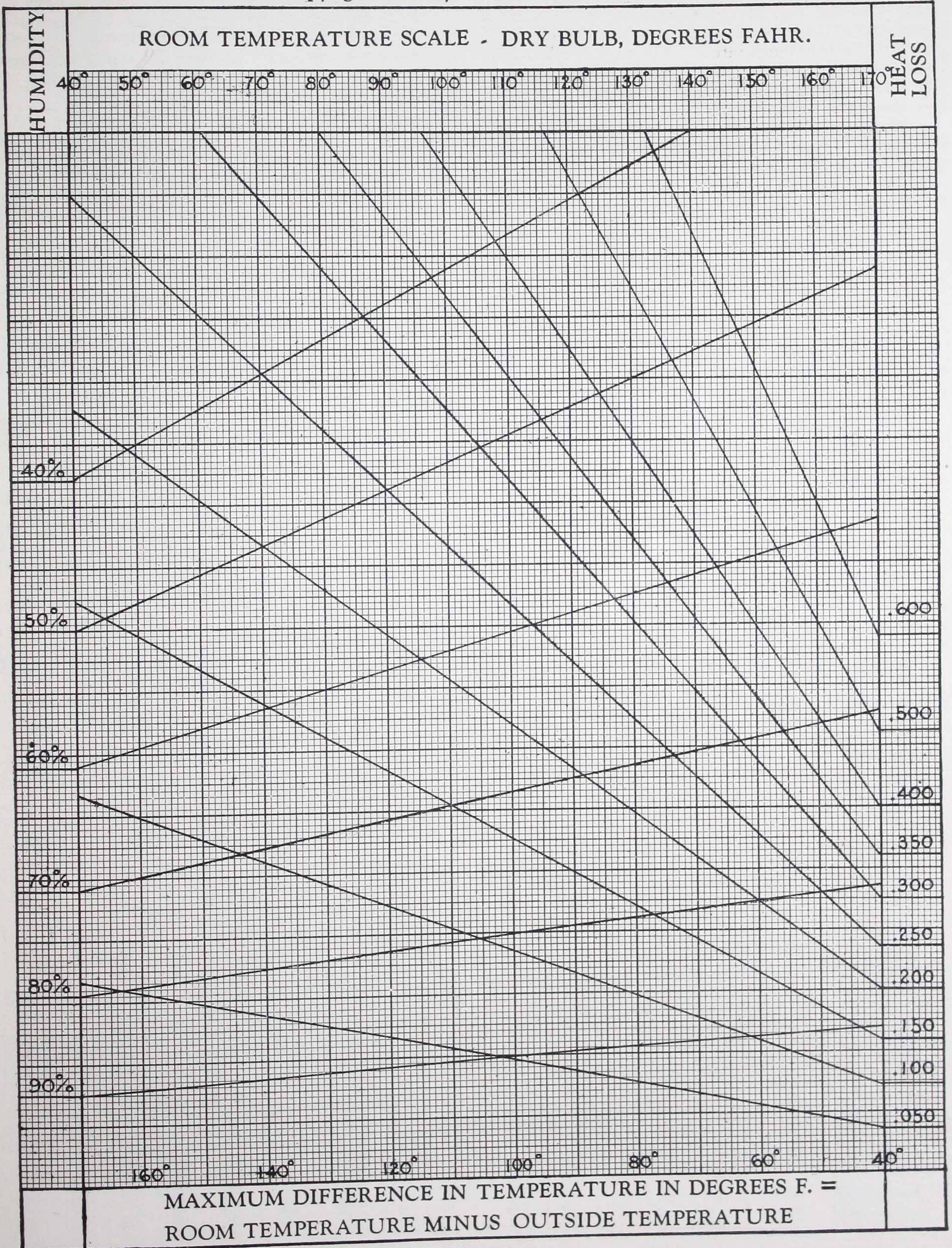
See also typical construction details showing heat loss tabulation.



# HEAT LOSS CHART

FOR DETERMINING THE MAXIMUM ALLOWABLE HEAT LOSS

Copyright 1930 by L. Mundet & Son.





# TYPICAL CONSTRUCTION DETAILS

*Showing Heat Transmission for Insulated and Uninsulated Construction*

Below are illustrated certain commonly used building sections, with and without insulation, together with tables showing the heat transmission through them expressed in B.t.u. per hour, per square foot, per degree difference in temperature. The figures given have been taken or computed from information contained in the 1930 Guide of the American Society of Heating and Ventilating Engineers.

The cuts are representative of methods of construction in common use and the data given will apply regardless of size or class of work. Should there be a type not illustrated upon which information is desired, a communication addressed to any of our offices will

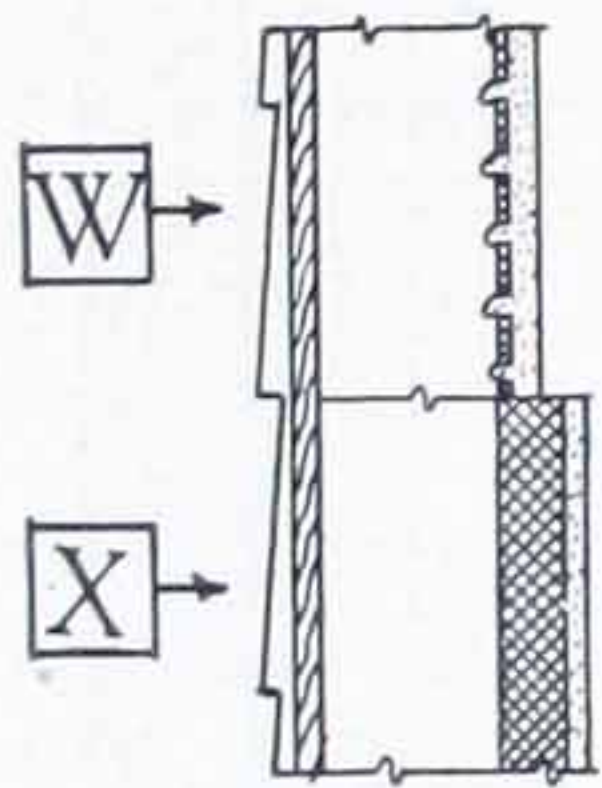
receive immediate attention and the specific information will be gladly furnished.

It is apparent from an inspection of these tables that the use of Mundet "Jointite" Corkboard will effect a considerable monetary saving. In commercial practice, the intangible factor of increased comfort for people working in insulated rooms, while difficult to estimate in dollars and cents is, nevertheless, an important consideration that is receiving greater attention from the careful executive. In the home, where comfort is of paramount importance, fuel economy due to use of Mundet "Jointite" Corkboard Insulation is overshadowed by factors of increased health and comfort.

## Specification

"W" beveled siding, waterproof paper, sheathing, studding, lath and plaster.

"X" beveled siding, waterproof paper, sheathing, studding, corkboard, plaster.

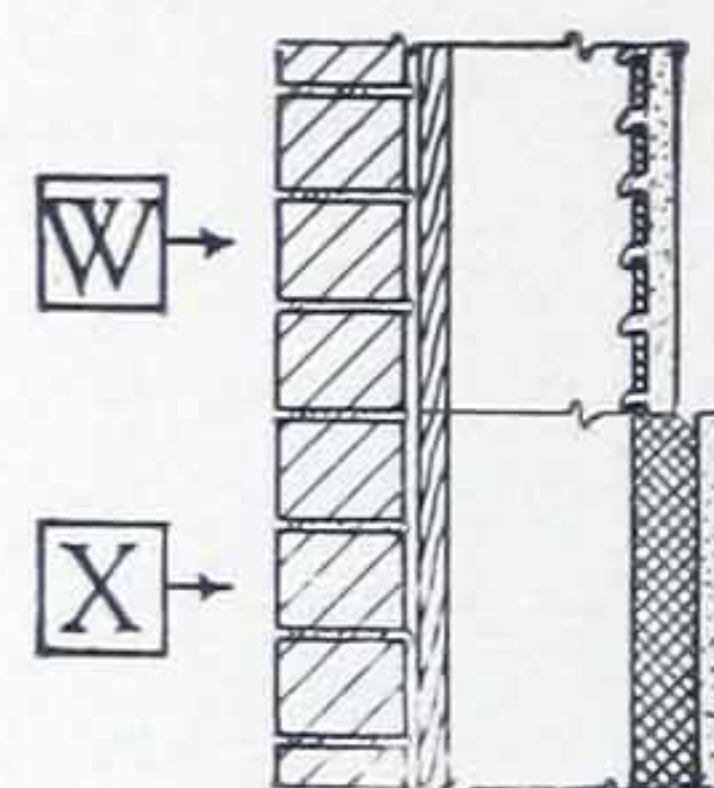


Not insulated, W	X, insulated with corkboard, in.	
	1½	2
.275	.117	.098

## Specification

"W" brick veneer, waterproof paper, sheathing, studding, lath and plaster.

"X" brick veneer, waterproof insulation paper, sheathing, studding, corkboard, plaster.

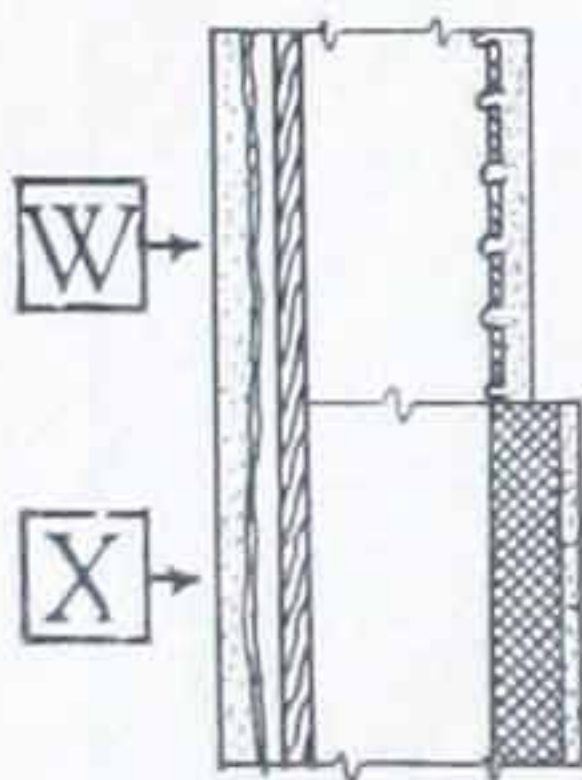


Not insulated, W	X, insulated with corkboard, in.	
	1½	2
.258	.114	.087

## Specification

"W" stucco on metal lath, furring, waterproof paper, sheathing, studding, lath and plaster.

"X" stucco on metal lath, furring, waterproof paper, sheathing, studding, corkboard, plaster.



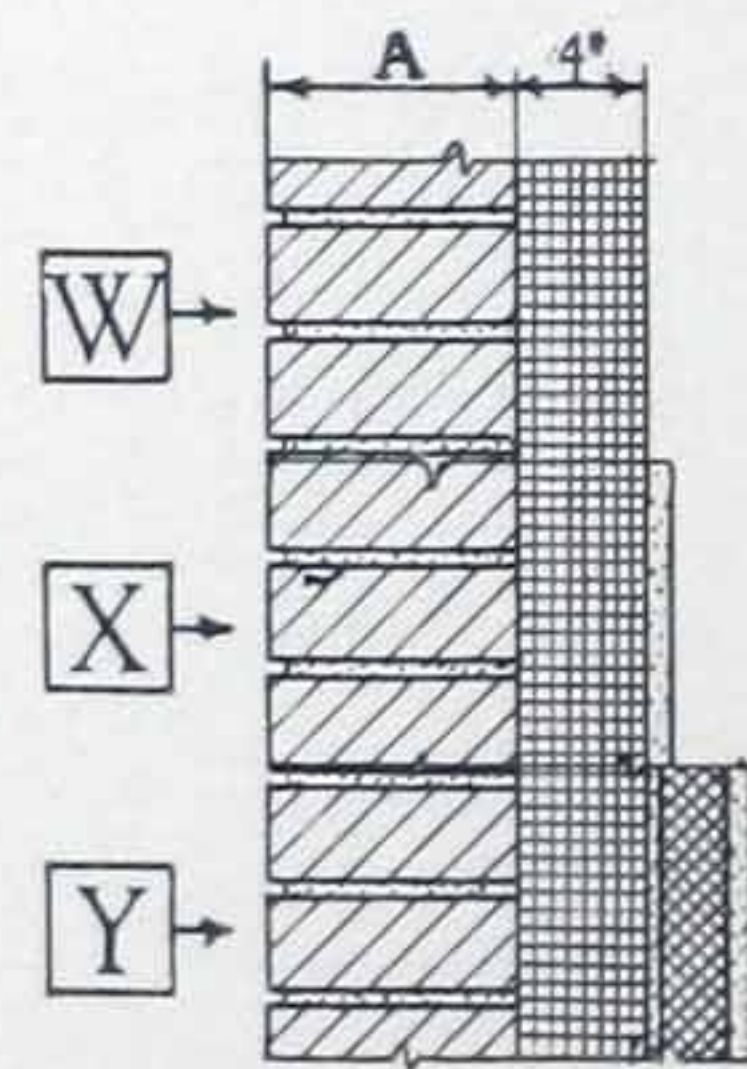
Not insulated, W	X, insulated with corkboard, in.	
	1½	2
.319	.125	.103

## Specification

"W" brick, tile.

"X" brick, tile, plaster.

"Y" brick, tile, portland cement backing, corkboard, plaster.



Thickness, A, in.	Not insulated		Y, insulated with corkboard, in.	
	W	X	1½	2
8	.257	.243	.110	.092
12	.205	.197	.101	.087
16	.196	.185	.098	.085

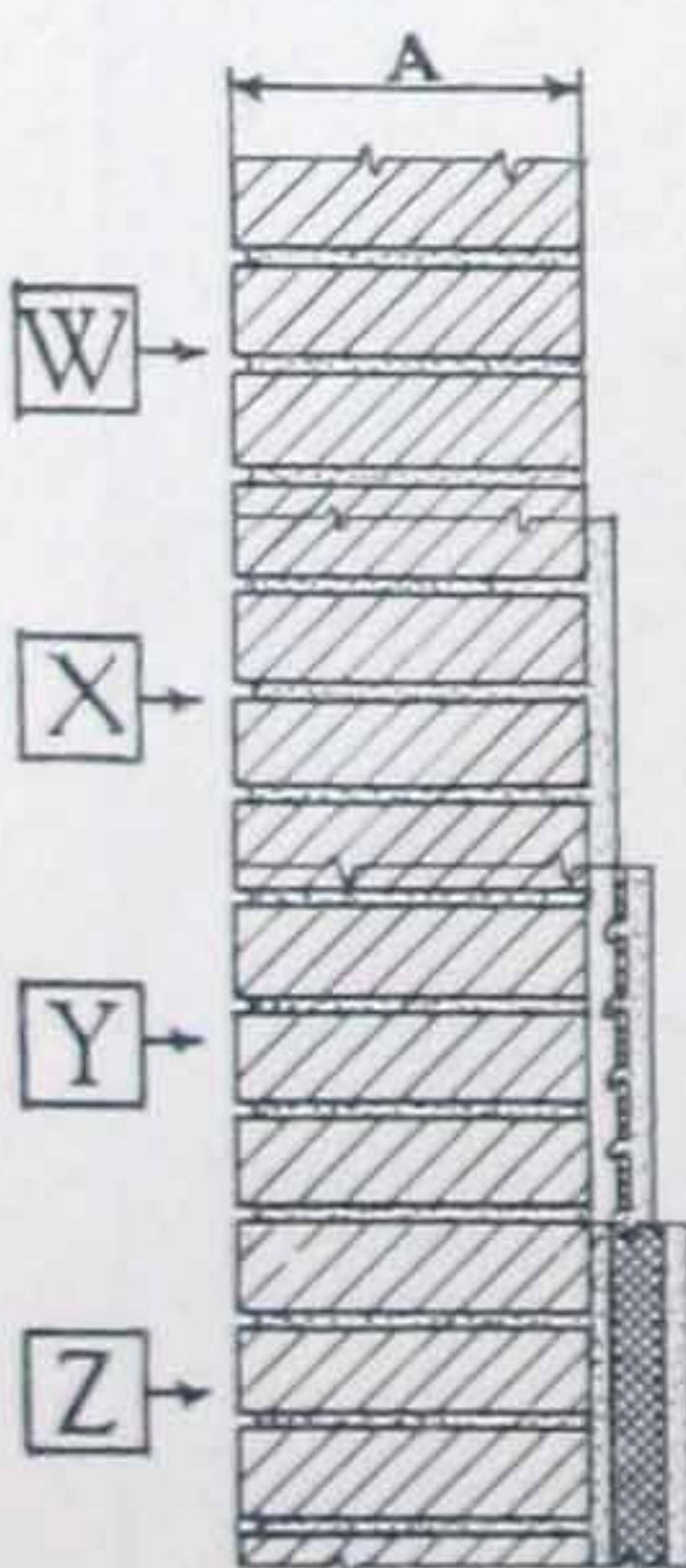
## Specification

"W" 4-in. face brick and common brick.

"X" brick, plaster.

"Y" brick, furring, lath and plaster.

"Z" brick, portland cement mortar backing, corkboard, plaster.



Thickness, A, in.	Not insulated			Z, insulated with corkboard, in.	
	W	X	Y	1½	2
8	.385	.356	.261	.127	.105
12	.295	.277	.216	.115	.097
16	.238	.227	.184	.104	.090
20	.190	.176	.153	.097	.083
24	.162	.148	.126	.089	.078

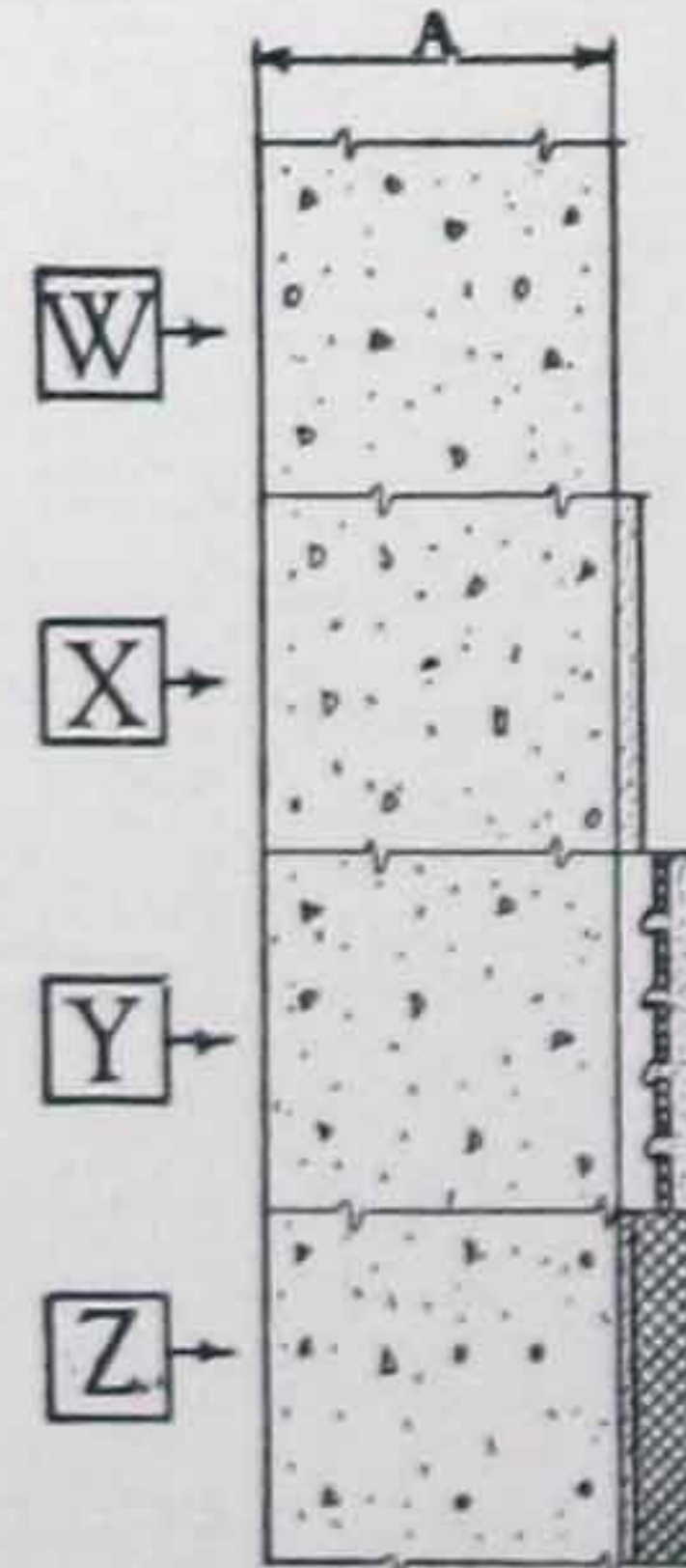
## Specification

"W" concrete—1 : 3 : 5 mix.

"X" concrete, plaster.

"Y" concrete, furring, lath and plaster.

"Z" concrete, portland cement mortar backing, corkboard, plaster.

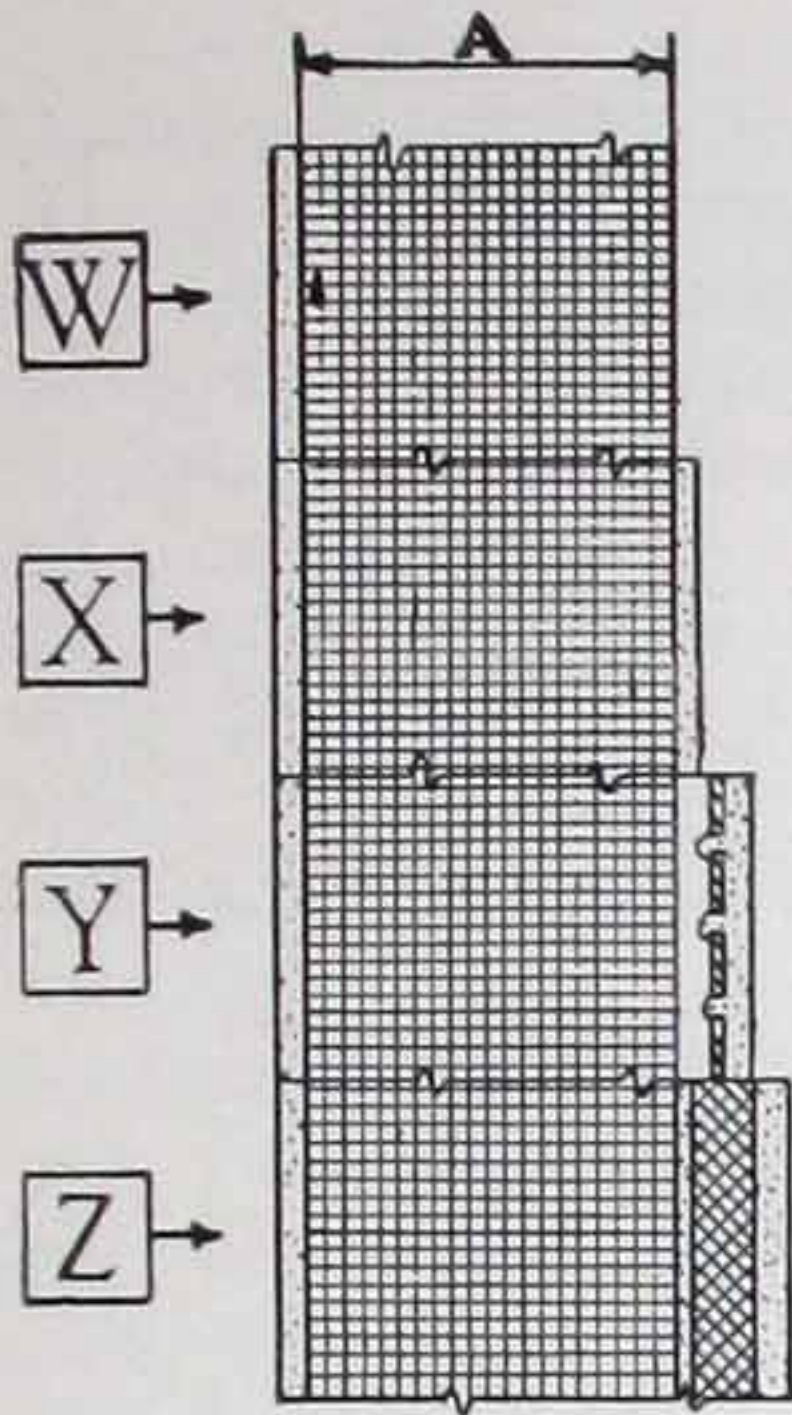


Thickness, A, in.	Not insulated			Z, insulated with corkboard, in.	
	W	X	Y	1½	2
4	.641	.573	.367	.150	.121
6	.583	.518	.339	.142	.116
8	.512	.461	.314	.138	.113
10	.455	.416	.292	.134	.109
12	.411	.378	.273	.131	.106
16	.343	.320	.241	.122	.101
18	.319	.299	.228	.120	.099
20	.294	.277	.216	.116	.097



### Specification

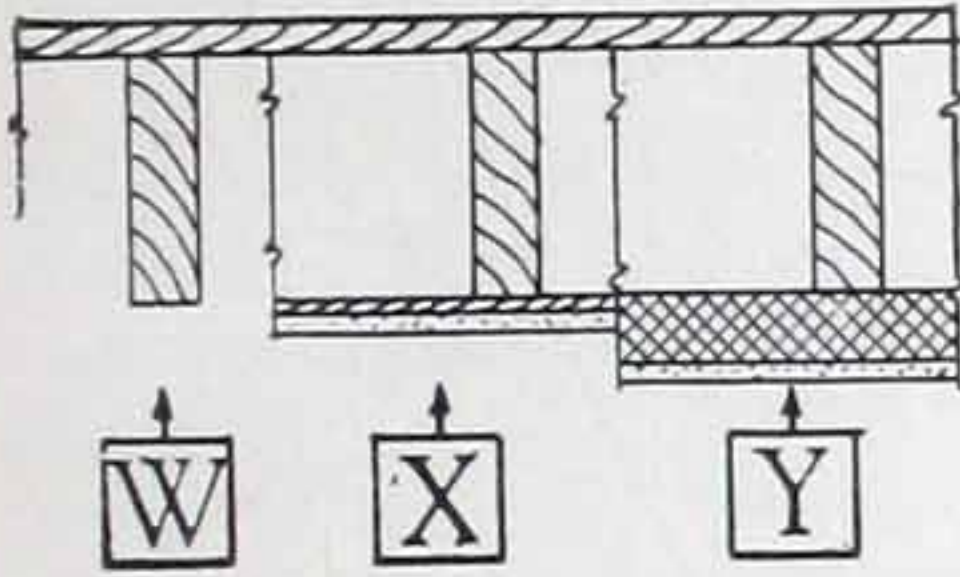
"W" stucco, hollow tile.  
 "X" stucco, hollow tile, plaster.  
 "Y" stucco, hollow tile, furring, lath and plaster.  
 "Z" stucco, hollow tile, portland cement backing, corkboard, plaster.



Thickness, A, in.	Not insulated			Z, insulated with corkboard, in.	
	W	X	Y	1½	2
4	.515	.463	.411	.142	.115
6	.419	.384	.346	.134	.110
8	.317	.296	.228	.119	.099
10	.304	.285	.221	.117	.093
12	.241	.229	.186	.106	.090

### Specification

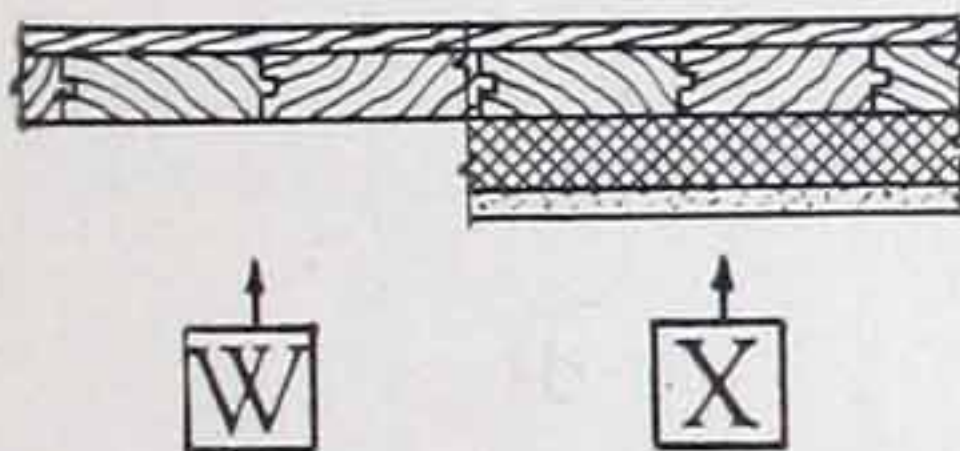
"W" single wood floor joists.  
 "X" single wood floor joists, lath and plaster.  
 "Y" single wood floor, corkboard, plaster.



Not insulated		Y, insulated with corkboard, in.	
W	X	1½	2
.440	.272	.119	.100

### Specification

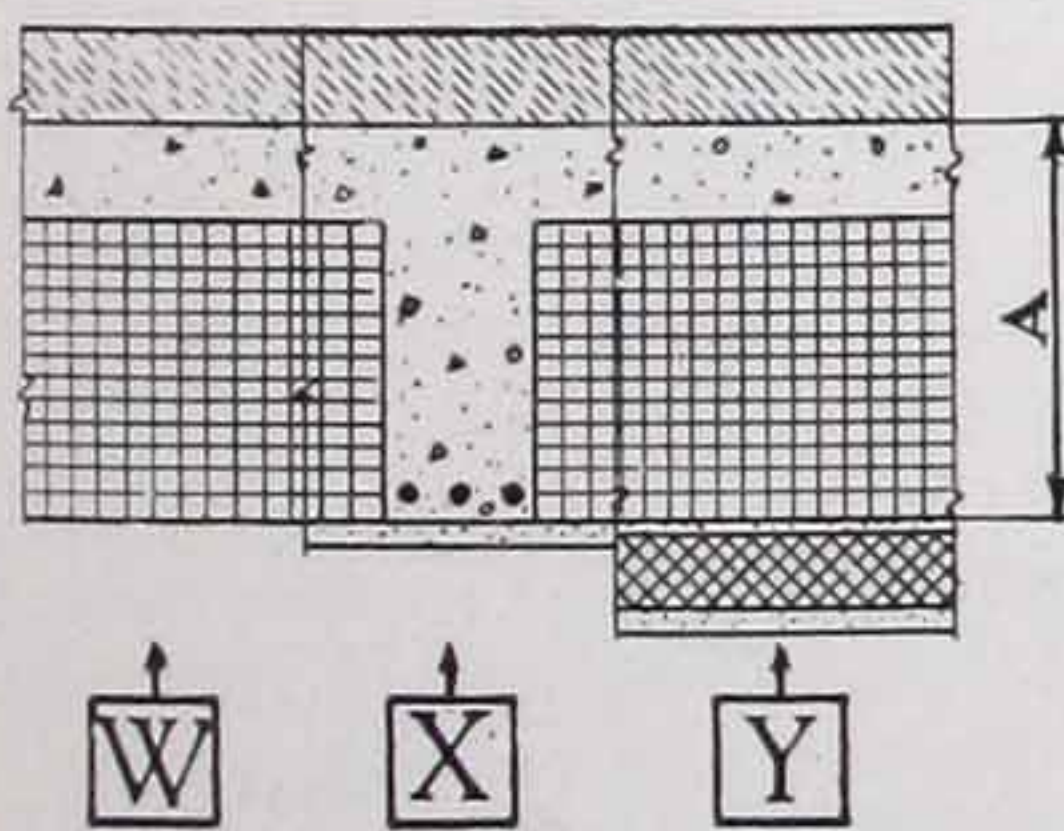
"W" finished wood floor (1 in.), mill constructed plank floor.  
 "X" finished wood floor, mill constructed plank floor, corkboard, plaster.



Not insulated, W	X, insulated with corkboard, in.	
	1½	2
.233	.108	.092

### Specification

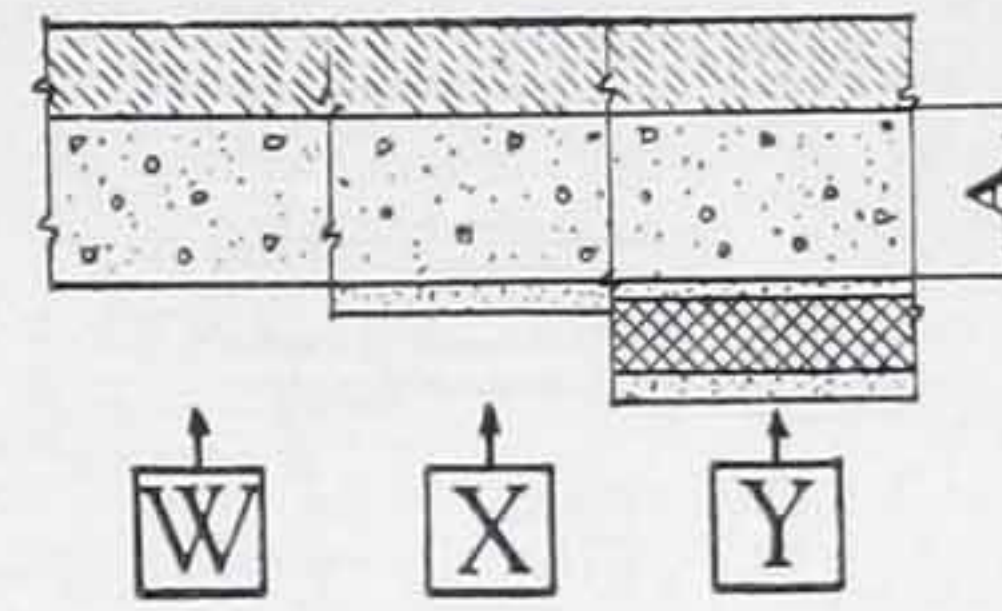
"W" finished (2-in.) concrete floor, reinforced concrete joist and tile slab.  
 "X" finished floor, reinforced concrete joist and tile slab, plaster.  
 "Y" finished floor, reinforced concrete joist and tile slab, portland cement mortar backing, corkboard, plaster.



Thickness, A, in.	Not insulated		Y, insulated with corkboard, in.	
	W	X	1½	2
5½	.621	.550	.150	.120
8	.430	.359	.135	.112
10½	.392	.321	.132	.108
13	.370	.299	.129	.106
15½	.271	.200	.114	.096

### Specification

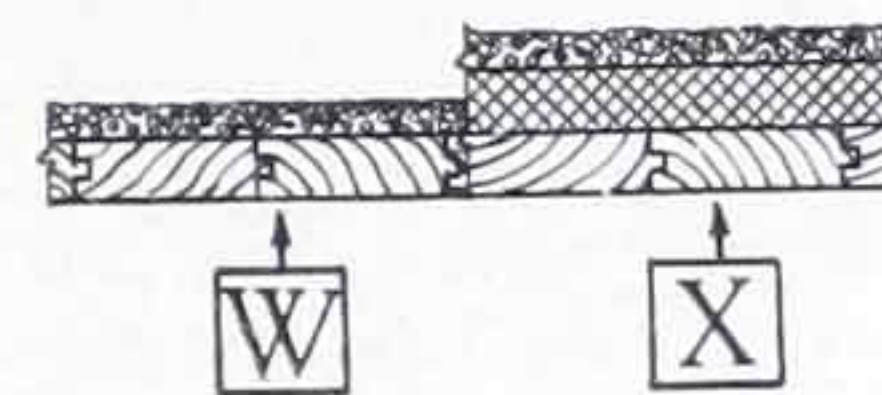
"W" finished (2-in.) concrete floor, reinforced concrete slab.  
 "X" finished floor, reinforced concrete slab, plaster finish.  
 "Y" finished concrete floor, reinforced concrete slab, portland cement mortar backing, corkboard, plaster.



Thickness, A, in.	Not insulated		Y, insulated with corkboard, in.	
	W	X	1½	2
4	.461	.419	.135	.110
5	.438	.400	.133	.109
6	.417	.380	.131	.107
7	.392	.363	.129	.106
8	.378	.348	.127	.105
10	.345	.322	.123	.103

### Specification

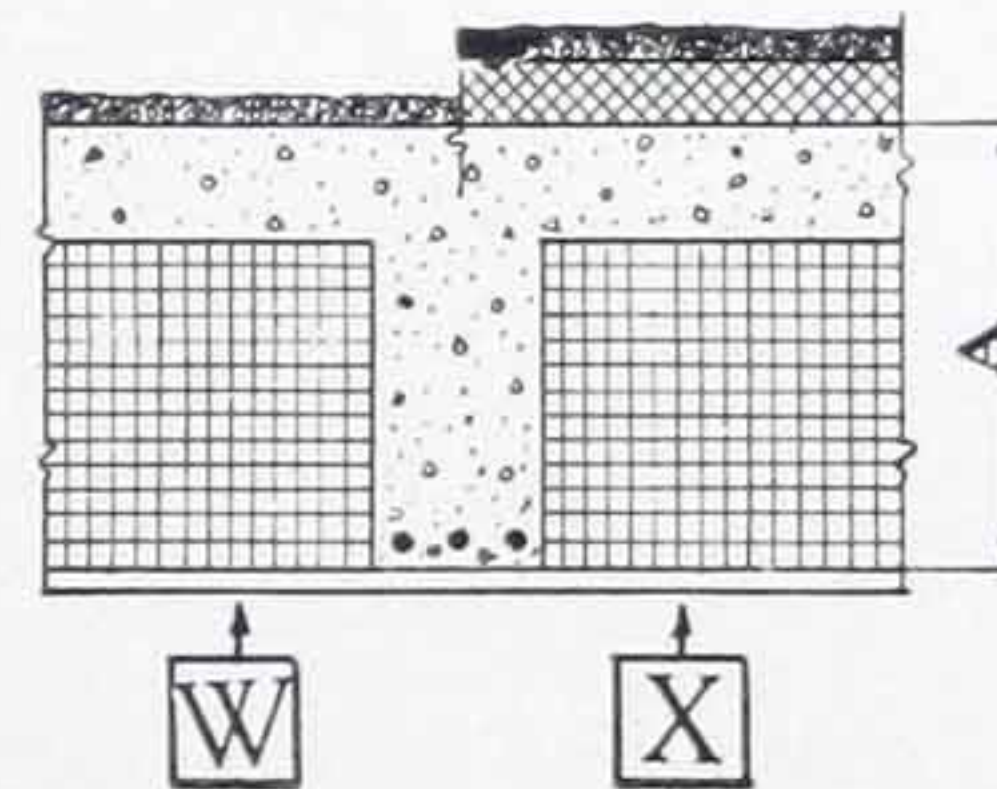
"W" standard built-up roofing, mill construction plank roof.  
 "X" standard built-up roofing, corkboard, mill construction plank roof.



Not insulated, W	X, insulated with corkboard, in.	
	1½	2
.345	.126	.104

### Specification

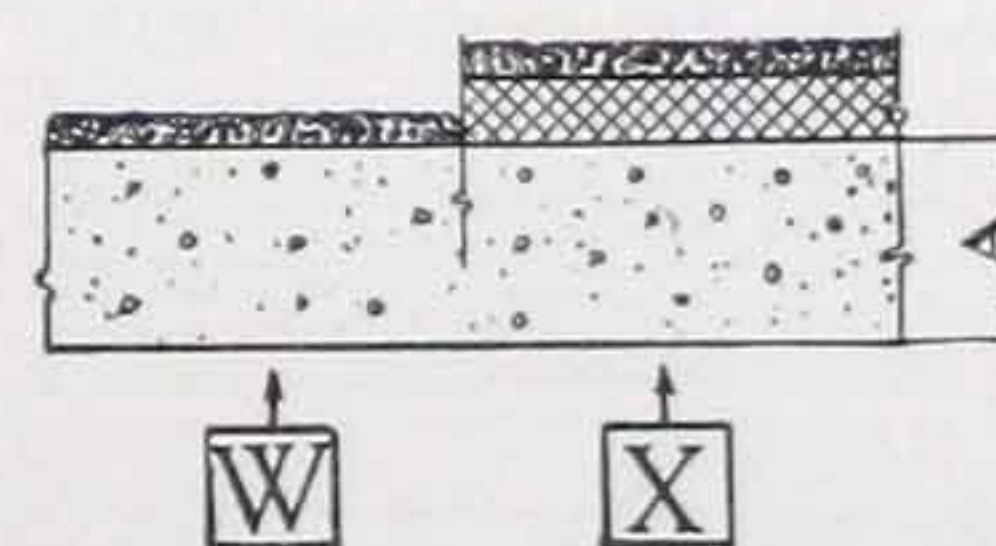
"W" standard built-up roofing, reinforced concrete joists and tile slab, plaster.  
 "X" standard built-up roofing, corkboard, reinforced concrete joists and tile slab, plaster.



Thickness, A, in.	Not insulated, W	X, insulated with corkboard, in.	
		1½	2
5½	.515	.143	.116
8	.456	.138	.112
10½	.410	.133	.109
13	.381	.130	.107

### Specification

"W" standard built-up roofing, reinforced concrete slab.  
 "X" standard built-up roofing, corkboard, reinforced concrete slab.



Thickness, A, in.	Not insulated, W	X, insulated with corkboard, in.	
		1½	2
2	.658	.153	.122
3	.610	.151	.120
4	.568	.148	.119
5	.532	.145	.117
6	.500	.143	.115
7	.472	.140	.113
8	.447	.138	.112



## VIBRATION ISOLATION

Among the multitudinous uses to which cork has been applied, the one which is expanding most rapidly at the present time is the utilization of its peculiar physical characteristics in the elimination of machine vibration. It is a matter of common knowledge that vibration is a cause of noise, but up to recently there has been a decided lack of purposeful effort directed towards its elimination.

The reasons for this widespread neglect are many, but it is not important that they be enumerated. The general attitude toward vibration has undergone a complete change in the last few years and whereas in the past vibration elimination was considered important only in such buildings as hospitals and libraries it is today regarded as essential in all classes of buildings. There are three chief factors in the existing attitude toward vibration:

First, the almost universal use of steel and concrete as structural members in all buildings, except small residences. Steel and concrete are both capable of transmitting vibration with little damping and the former can carry it long distances, while concrete arches are apt to resolve themselves into sounding boards and amplify minute vibrations into a pronounced drum effect in the air adjacent to them.

Second, the tremendous increase in numbers of machines in all classes of buildings, particularly those not housing manufacturing.

Third, and most important, the recent discoveries showing the harmful effects of noise in promoting accidents, lowering efficiency of workers, increasing fatigue, and causing annoyance and discomfort to those subjected to it.

The ideal way to eliminate vibration would be at the source, i.e., to have all moving parts of machinery in such complete dynamic balance that no forces could emanate from the machine in operation. This optimum condition is manifestly impossible of achievement in commercial machines as they now exist, and it becomes necessary to seek some medium which, when interpolated between the machinery and the supporting structure, will absorb the vibration present. Considerable responsibility rests upon this isolation medium, since in some cases no amount of acoustical treatment will eliminate noises due to vibration transmitted by it, and in all cases it is much easier and cheaper to eliminate the vibration as close to the source as structural conditions permit. Furthermore, vibration has a highly deleterious effect upon buildings and equipment, making it imperative to stop it as soon as possible.

The principal characteristics of a medium for machinery isolation in the order of their importance, are:

(1) Ability to support the loads imposed upon it without too great, or too variable, a deflection.

(2) Ability to absorb vibration in the machine without transmitting it to the surrounding structure.

(3) Permanence, including ability to withstand repeated loading without fatigue or permanent set, ability to withstand the action of water, oil, acids or alkalis without deterioration, ability to maintain its resilience with age.

Of the many materials that have been used for isolation purposes at one time or another, cork has proved itself to be pre-eminently fitted for this work. It contains over 50% air by volume, and is made up of a myriad of tiny cells, hermetically sealed from each other by the structure of the wood. Its compression curves, therefore, resemble more nearly those of a gas than of an elastic solid, as is evident on page 17. This feature is important, because the resistance to loads, instead of being proportional to the amount of deflection, is proportional to the compression in the air cells; hence, under vibratory variations in loading, the active deflection is much smaller than for an elastic substance, while the cushioning effect is higher. Any one who has seen the cork pulled from a bottle of champagne, after being in there for many years, and has watched it double in size, can form a rough idea of the permanence of its resiliency.

Finally, cork isolation has proven itself under the pragmatic test of use, and many thousands of installations, some of them over a quarter of a century old, are giving complete satisfaction; often making possible the use of machines which without it could not be used in their present locations because of the vibration accompanying their operation.

### Type of Cork Isolation to Use

Mundet Cork Isolation is made in three general types, to conform with the class of loadings imposed upon it. They are as follows:

(1) **Mundet Light Load Isolation Cork**—This material,

as the name implies, is designed primarily for light loads. It starts to pick up vibration at as low a loading as 200 lb. per sq. ft., and is ordinarily used for light machinery loads or as a side isolation. It is composed of small granules of natural cork, mixed with a special elastic binder, and is moulded in sheets. The thickness customarily employed is 1 in., although it can be furnished in any thickness from ½ to 2 in. Due to its fairly high compressive strength, it is occasionally used in conjunction with a layer of Mundet Natural Cork Isolation Mat, in order to have two materials, of different base frequencies, to make up the isolation.

(2) **Mundet Natural Cork Isolation Mat**—This form of cork isolation is suited to loads of about 800 to 2000 lb. per sq. ft., normally encountered in machinery foundations. Blocks of natural cork of the required thickness are held within a rigid steel frame. The plates when laid together form a continuous mat isolation of the exact size necessary. In the case of average machine vibrations 1½ in. of natural cork is adequate, but for intense vibrations or shock loads, the thickness should be increased to 2 or 3 in.

(3) **Mundet Machinery Isolation Cork**—This is the material first used as isolation cork and, while it has been superseded by the above materials for light and medium loads, for loads above 2000 lb. per sq. ft., Mundet Machinery Isolation Cork has not been surpassed. This cork is made in sheets, of various thicknesses, and in three densities, namely, light, medium and heavy.

For loadings of 2000 to 3000 lb. per sq. ft., it is customary to use either light or medium density, according to the character of the vibration. Light density is used for light vibrations and medium density for heavy vibrations. From 3000 to 3500 lb. per sq. ft., either medium density or heavy density is used, according to the character of the vibratory load, and from 3500 to 6000 lb. per sq. ft., it is customary to use heavy density. The thicknesses of machinery isolation cork used depend upon the frequency and amplitude of the vibration present, but the most common thicknesses employed are 1½, 2, 3 and 4 in.

Machinery Isolation Cork is composed of granules, cemented together in the process of manufacture which is the same as that of corkboard. It contains more cork per cubic foot than the natural cork isolation mats. It is structurally strong, but must have a higher initial loading than natural cork isolation mat before it equals the latter in efficiency as an isolation medium. The densities in pounds per cubic foot are:

Light, 1.00-1.30; Medium, 1.30-1.50; Heavy, 1.50-1.70. A special 1.80-1.90 density is available for severe vibrations combined with exceptionally heavy loads, but this should be used sparingly.

### The Manufacture of Mundet Isolation Cork

**Mundet Light Load Isolation Cork**—Made from granules of pure cork ranging from ⅛ to ¼ in. in size. These are mixed with a special elastic binder and formed in a mould producing a sheet measuring 24x36 in. The material is sold in ½, 1, 1½ and 2-in. thicknesses.

**Mundet Natural Cork Isolation Mats**—These are fabricated of blocks of pure cork. The blocks of cork are forced into a rigid steel frame made up according to size of mat required with reinforcing struts running longitudinally and laterally about every 12 in. In the fundamental foot square units in which the mat is divided, the strips of cork are placed with the grain parallel to the plane of the frame, and these spaces are filled in the hollow square method. After the cork mat is fabricated, it is subjected to a finishing process which planes and sands the surfaces which will come in contact with machinery and foundations. The mat is then dipped in a special non-volatile oil, which preserves the cork and insures it against attack by water, oils, acids or alkalis. Mundet Natural Cork Isolation Mats are available in all rectangular sizes from 4x4 in. up to 72x72 in. Large foundation areas are built up of several mats. The mats are sold in 1, 1½, 2, 3-in. and occasionally 4, 5 and 6-in. thicknesses.

**Mundet Machinery Isolation Cork**—In all three densities, this is manufactured in the same manner as described on page 1 for Mundet Jointite Corkboard, the only difference being in the amount of cork placed in the moulds and the pressure to which it is subjected during the baking process. It is available in 1, 1½, 2, 3, 4 and 6-in. thicknesses in all three densities. The standard size sheet is 12x36 in.

**Shipment**—All of the isolation listed is carried



in stock with the exception of special sizes of Mundet Natural Cork Isolation Mat, and any type of isolation, whether granulated or natural mat, can be shipped within 48 hours after the receipt of an order by our factory. Mundet Machinery Isolation Cork is stocked in our various branch warehouses for immediate shipment.

### Specification for the Installation of Mundet Cork Isolation

(In a pit where monolithic concrete base is to be cast upon the cork.)

The sides and bottom of all machinery pits which are to

receive isolation shall be true and even, as well as clean, smooth and dry, before cork isolation is applied.

The sides and bottom of all machinery foundation pits shall be lined with a layer of Mundet (*specify type of cork*). Bottom isolation shall be ..... in. thick and side isolation shall be ..... in. thick. The side and bottom cork shall be laid in a heavy mop coat of hot asphalt and the exposed surfaces protected with two layers of waterproofing felt, mopped in, with all edges lapped at least 6 in.

Where the cork is to be laid on top of a finish floor or between the machinery and the building structure in a wall or ceiling suspension, no specification is needed. A suggested form is illustrated in Fig. 1, while Fig. 2 covers the type of isolation described in the above specification.

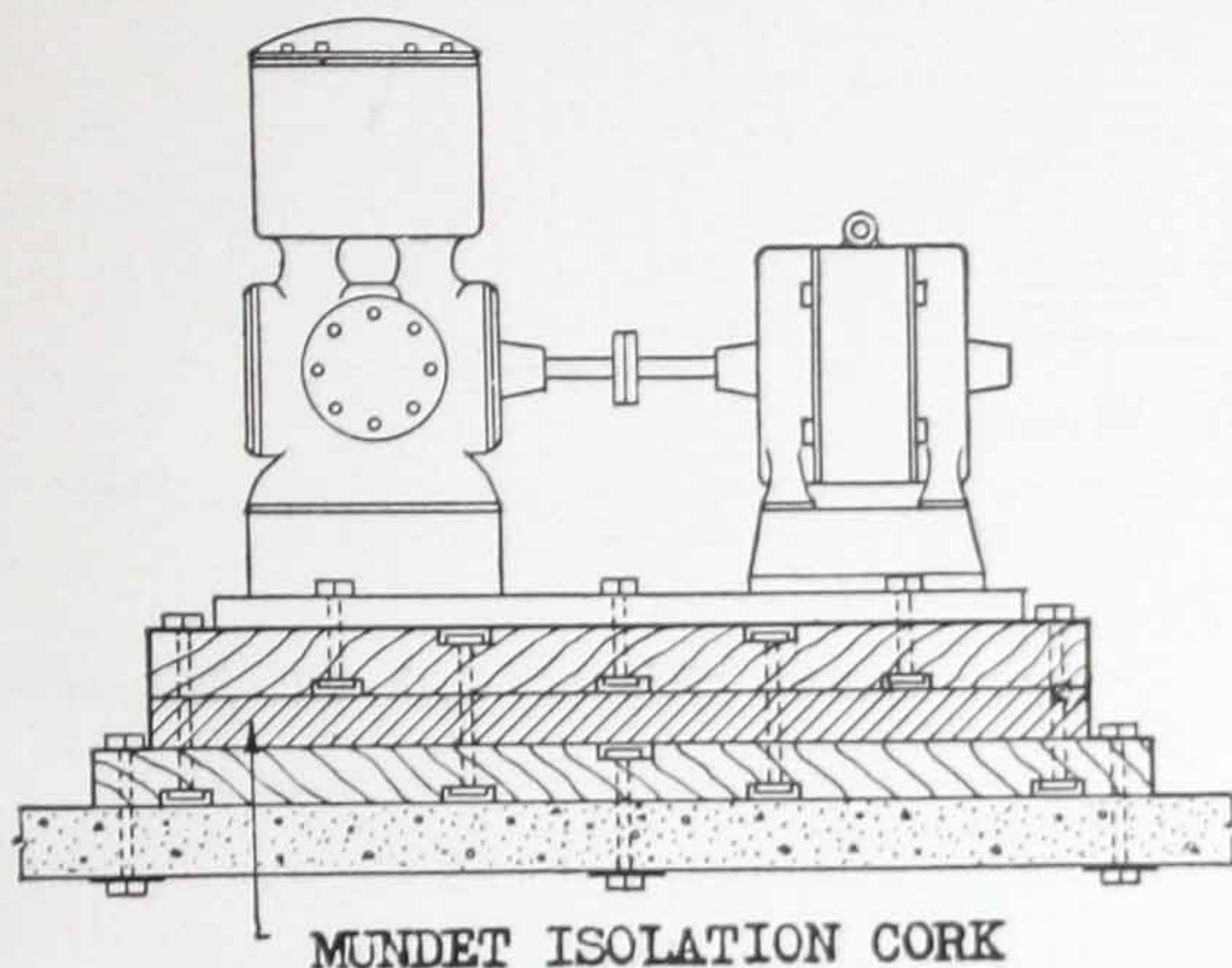


Fig. 1

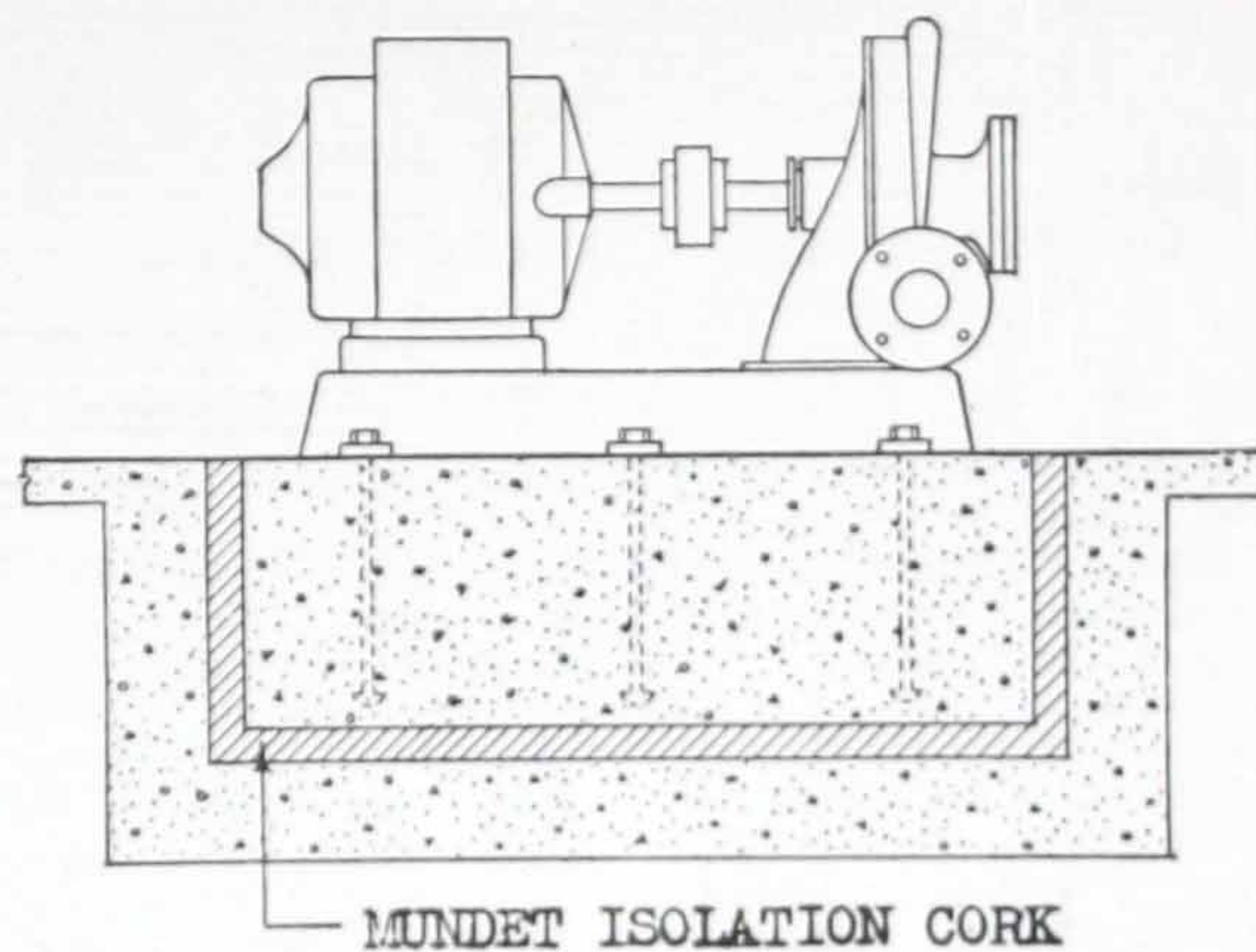
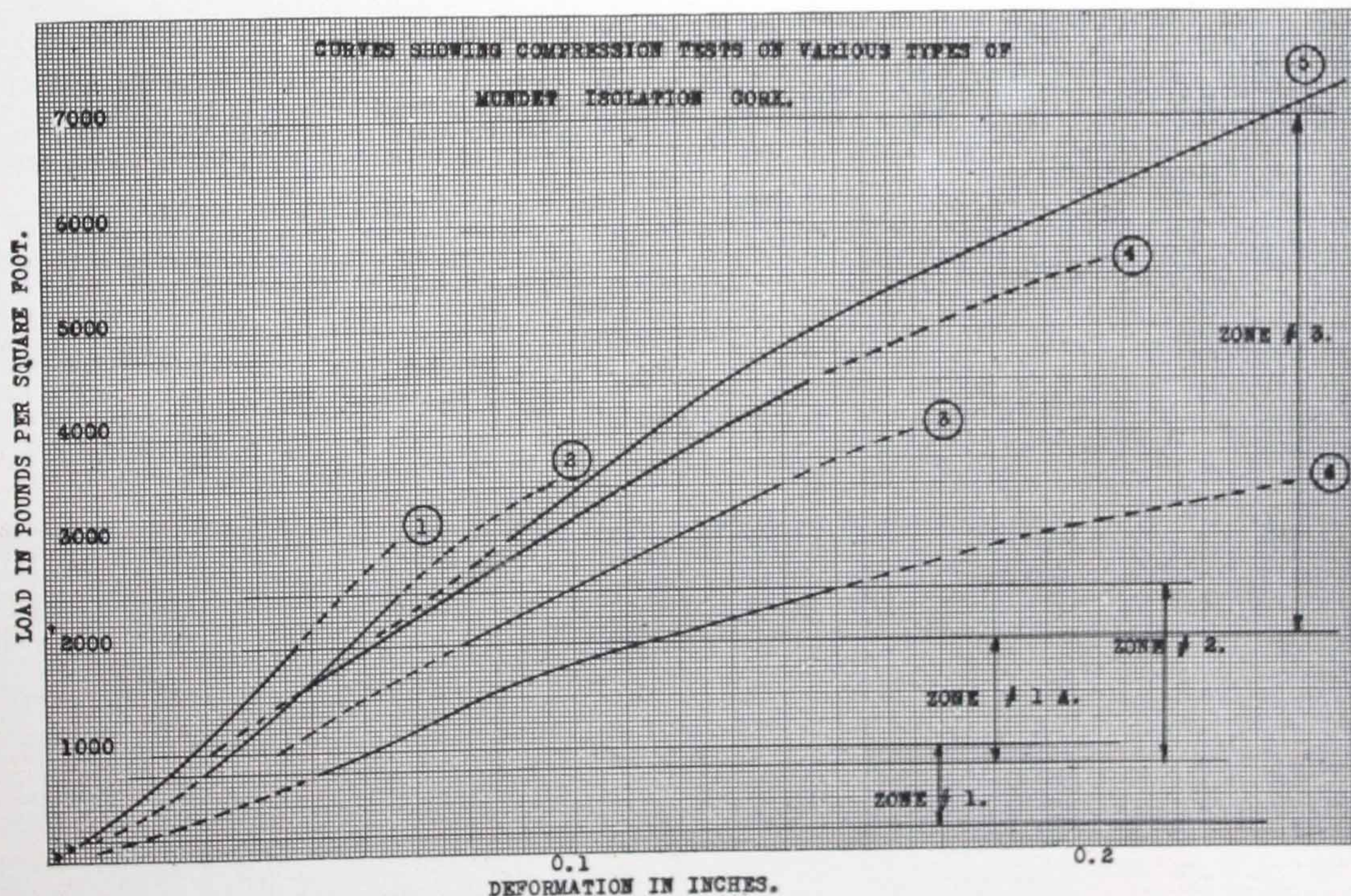


Fig. 2



The above chart is included to assist the designer in selecting isolation cork. The curves are numbered and correspond to test pieces as follows:

- (1) Mundet Light Load Isolation Cork—1 in. thick
- (2) Mundet Natural Cork Isolation Mat—1½ in. thick
- (3) Mundet Machinery Isolation Cork—light density—2 in. thick
- (4) Mundet Machinery Isolation Cork—medium density—2 in. thick
- (5) Mundet Machinery Isolation Cork—heavy density—2 in. thick
- (6) Mundet Natural Cork Isolation Mat—3 in. thick

The thicknesses selected are those most commonly used in general practice. Curve No. 6 is included primarily to show that the amount of compression varies directly with the thickness of isolation used. This is true of all forms of cork isolation. Vibration absorption also varies approximately with thickness of isolation used.

The chart is divided into zones which show the recommended load limits. The curves are shown as solid lines within the zone limits, and their behavior outside of these limits is shown by the dotted extensions.

Zone No. 1 is for Mundet Light Load Isolation Cork alone.

Zone No. 1A is for Mundet Light Load Isolation Cork in Conjunction with Mundet Natural Cork Isolation Mat.

Zone No. 2 is for Mundet Natural Cork Isolation Mat.

Zone No. 3 is for Mundet Machinery Isolation Cork.

Mundet cork has been tested for static loads up to 15,000 lb. per sq. ft. Further information upon this subject will be gladly furnished. Our Engineering Department will be glad to co-operate in the design of any machinery vibration isolation. A request directed to the Company or our nearest branch office will receive prompt and competent attention.



# MUNDET CORK CORP.

450 Seventh Avenue, NEW YORK, N. Y.

DOMESTIC FACTORIES: HILLSIDE, N. J., BROOKLYN, N. Y.

## BRANCHES

ATLANTA, GA.  
BOSTON, MASS.  
BUFFALO, N. Y.

CHICAGO, ILL.  
CINCINNATI, OHIO  
DETROIT, MICH.

HOUSTON, TEX.  
KANSAS CITY, MO.  
LOS ANGELES, CAL.

MEMPHIS, TENN.  
NEW ORLEANS, LA.  
PHILADELPHIA, PA.

ST. LOUIS, MO.  
SAN FRANCISCO, CAL.  
TULSA, OKLA.

## AGENTS

CLEVELAND, OHIO, C. S. Ross  
DES MOINES, IOWA, John Kennedy  
MINNEAPOLIS, MINN., Insulation Sales Co.  
PORTLAND, ORE., F. J. Leonard  
VANCOUVER, B. C., CANADA, T. M. Grindley Company, Ltd.

PORTLAND, ORE., Pacific Asbestos & Supply Co.  
SALT LAKE CITY, UTAH, L. A. Roser  
SEATTLE, WASH., Pacific Asbestos & Supply Co.  
UTICA, N. Y., George Weisenberger

## Product

MUNDET "JOINTITE" CORKTILE FLOORING.

For other Mundet products, including Cork Insulation and Cork Bulletin Board, see Manufacturers' Index.

## "Jointite" Cork Tile Flooring

Mundet "Jointite" Cork Tile is manufactured in two thicknesses, namely  $\frac{1}{8}$  and  $\frac{1}{2}$  in.

Mundet "Jointite" Cork Tile is composed of the very best selected cleaned and screened cork shavings. These shavings are placed in moulds of the proper depth to produce the tile thicknesses desired and are subjected to tremendous pressure to insure the proper density for floor use. The moulds are then placed in an oven maintained at a relatively high degree of heat (approximately 600° F.). This heat allows the rosin in the cork shavings to liquify and acts as a binder for the shavings, thus no foreign substance is needed to hold the shavings together and the natural properties of the cork shavings are not impaired in any way.

"Jointite" Cork Tile is produced in three shades, all of which are brown in color, some light, some medium and some dark. These shades are obtained by governing the period of baking. Proper designs and arrangements of an artistic nature can be obtained by laying the tile in the different shades.

## Ideal for

Corridors, halls, vestibules, ramps, stair treads, hospitals, schools, colleges, railroad stations, libraries, telephone rooms, offices, gymnasiums, churches, bathrooms, bedrooms, sleeping porches, nurseries, banks, theatres, courtrooms, art galleries, museums, etc.

## Uses and Advantages

- (1) Comes in various sizes, suitable for any floor.
- (2) Does not shrink, swell or warp.
- (3) Only absolutely pure cork used in its manufacture.
- (4) Immune to grease, ink and most liquids.
- (5) Cannot catch or absorb dirt or moisture.
- (6) Easily cleaned, washable with soap and water.
- (7) Varying shades of color are created by varying the temperature when baking. No coloring matter is used.
- (8) Cannot splinter, tear, corrode, rot or crumble.
- (9) Easy to walk upon due to its natural elasticity.
- (10) Hard heels on Mundet "Jointite" Cork Tile are noiseless.
- (11) Cosy and warm owing to its insulating qualities.
- (12) Restful to the eye as well as to the ear.
- (13) Highly compressed, hence strong, firm and durable.
- (14) Not slippery, even when wet.

## Sizes

12x36 in. is standard size. We also make standard 6, 9 and 12-in. squares; special 3, 4 and 5-in. squares; 3x18,

4x18, 6x18 and 9x18-in. border strips; and 9x36, 6x36, 6x12, 4x36, 4x8, 4x12, 3x12, 3x9 and 3x6-in. oblong strips.

## Cove Base

We furnish Mundet "Jointite" Cork Tile Sanitary Cove Base in all heights.

## Specifications

All cork tile stair treads and cork tile floors to be  $\frac{1}{2}$  or  $\frac{5}{8}$ -in. thick cork tile.

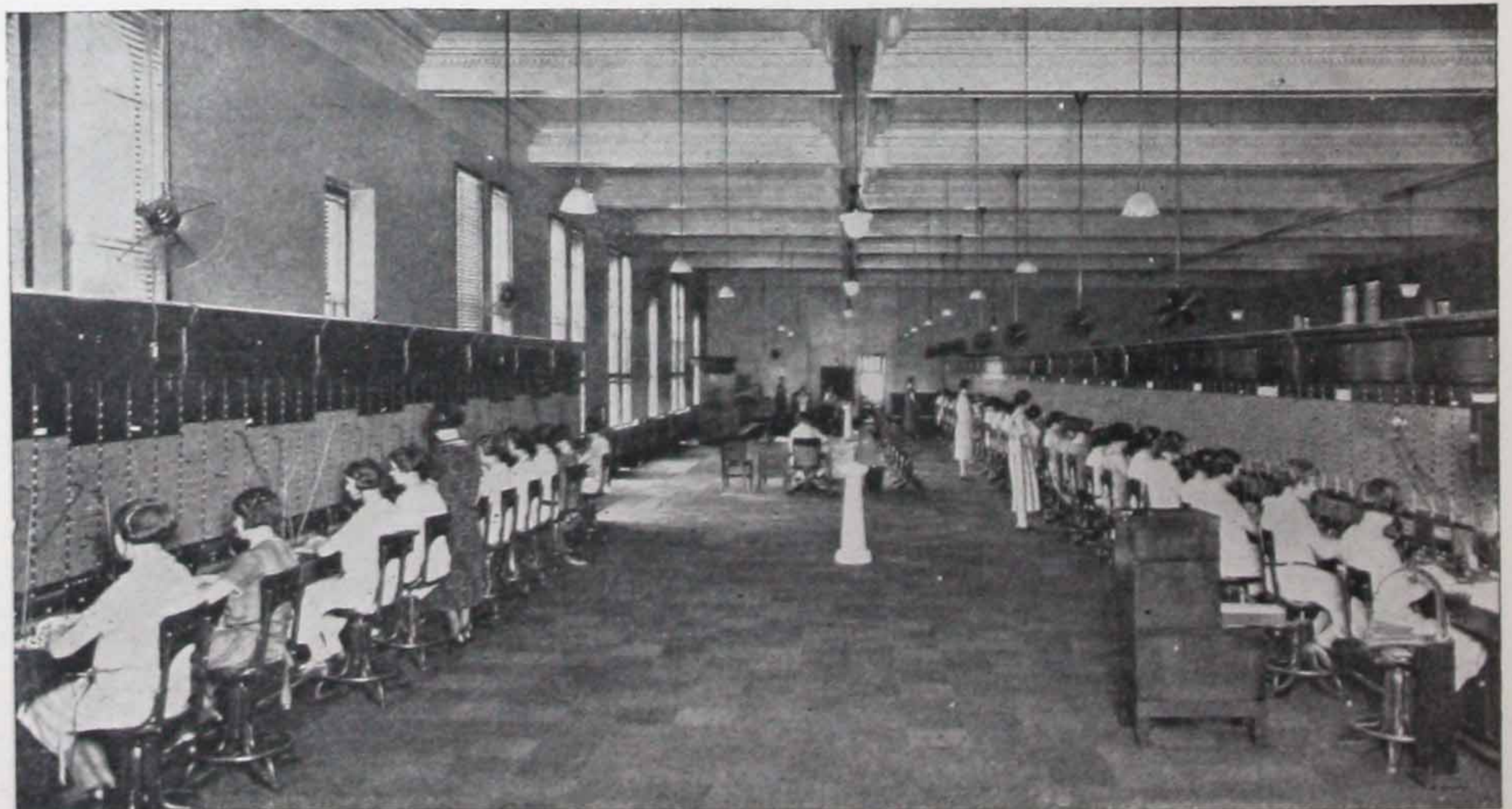
The tile to be highest grade pure cork throughout, solid, compressed, properly baked. There must be no forcing substances whatever in the tile. Only high grade, waterproof, elastic cement shall be used in applying the tile. All joints to be securely and hermetically cemented.

Where wood is used as a base under tile, nothing inferior to tongued and grooved flooring  $\frac{7}{8}$  in. thick, 6 in. maximum width, shall be used to support Mundet "Jointite" Cork Tile. It must be well fitted, tight, firmly nailed, smooth and level.

Where cement is used as a base under tile, it must be of a nailing quality and it shall be at least 1 in. thick and shall be made of 5 parts of acceptable clean screened sand, and 1 part fresh cement. It must be troweled smooth. Allowance must be made for  $\frac{1}{2}$  or  $\frac{5}{8}$ -in. thickness of tile. Do not lay cork tile before the concrete has set and dried.

Note (1): **Nosing**—Mundet "Jointite" Cork Tile is adaptable to any type of nosing on stair treads.

Note (2): **Cove Base**—The wall and floor must make a true and smooth right angle with each other so that the Mundet "Jointite" Cork Tile Cove Base will fit evenly throughout with both the wall and floor. There must be no foreign lumps or dirt on the surfaces. Surfaces may be of any standard acceptable backing—wood, plaster, cement, etc.



The Norwood Telephone Exchange, Cincinnati, Ohio—Flooring of "Jointite" Cork Tile



# MUNDET CORK CORP.

450 Seventh Avenue, NEW YORK, N. Y.

DOMESTIC FACTORIES: HILLSIDE, N. J., BROOKLYN, N. Y.

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SALT LAKE CITY, UTAH, L. A. Roser  
SEATTLE, WASH., Pacific Asbestos & Supply Co.  
UTICA, N. Y., George Weisenberger

## Product

MUNDET "JOINTITE" BULLETIN BOARDS.

For other Mundet products, including Cork Insulation and Cork Flooring Tile, see Manufacturers' Index.

## MUNDET "JOINTITE" BULLETIN BOARD

### Uses

Mundet "Jointite" Cork Bulletin Boards are used extensively in schools, colleges, factories, offices, hotels, club rooms and, in general, wherever a soft and durable surface must be provided for the posting of notices. They are easily penetrated by thumbtacks.

### Description

Mundet "Jointite" Cork Bulletin Boards are composed of a layer of composition cork  $\frac{1}{4}$  in. thick which has been securely cemented to a backing of  $\frac{1}{4}$ -in. 3-ply, wood insert, compoboard. It is a neutral brown in color and makes an ideal background in its natural state.

### Advantages of Mundet "Jointite" Bulletin Boards

Cork bulletin boards have several advantages peculiar to the material of which they are constructed. They are so much superior to the conventional wooden bulletin board as to render the latter obsolete. The chief reasons the cork bulletin boards are so superior to those of wood construction are:

- (1) A thumbtack can be pushed in with little effort but is held with a firm grip.
- (2) No knife or tack puller is necessary to remove thumbtacks.
- (3) Due to the resiliency of cork, holes made by thumbtacks have a tendency to gradually close. This results in a far better appearing board than one in which there are many unsightly holes.

### Sizes

Mundet "Jointite" Cork Bulletin Boards are furnished cut to any size required. The standard mounted sheets measure 4x6 ft. Unmounted, the cork bulletin board can be furnished in rolls measuring 6x60 ft. Cork bulletin boards can be installed by any carpenter. They are easily cut with a saw.

### Specifications

*Note:* Due to the nature of the material, it is usual to include same in the Carpentry Section of the General Specifications as follows:

**Cork Bulletin Boards**—Furnish and install Mundet "Jointite" Cork Bulletin Boards where indicated on the drawings and as specified.

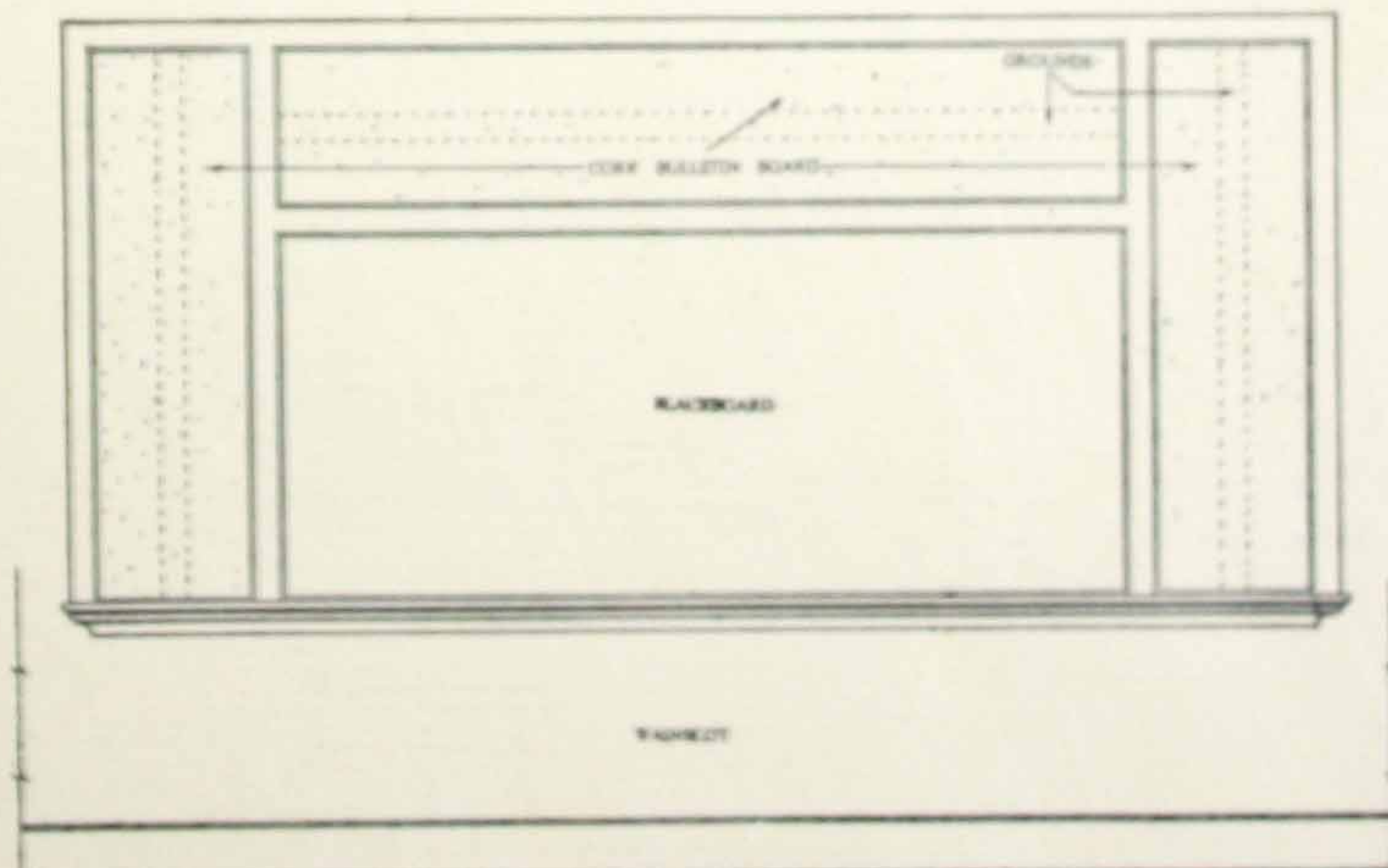
*Note:* Specifications should further contain a schedule of locations and sizes.

All bulletin boards shall be Mundet "Jointite" Cork Bulletin Boards as manufactured by MUNDET CORK CORP., New York, N. Y.

The material shall be a full  $\frac{1}{2}$  in. in thickness, consisting of a  $\frac{1}{4}$ -in. layer of composition cork reinforced with a burlap back, securely mounted by cementing same to a 3-ply backing of compoboard with wood core.

All frames shall match the trim and shall have loose cover mould around all cork bulletin boards. All cork bulletin boards shall be securely nailed at edges before cover mould is installed.

**Grounds**—Set 2-in. wide grounds, of such thicknesses as will be required to conform with that necessary for adjacent trim, to receive Mundet "Jointite" Cork Bulletin Board as called for on drawings, or in specifications. All grounds shall be set straight and level.



A Suggestion for Installation of Mundet "Jointite" Bulletin Board—Front Elevation



